

GTX300029

## iPSC Antibody Panel - Yamanaka factor

### Product Content

| Cat No       | Product Name                        | Reactivity             | Applications                    | Package |
|--------------|-------------------------------------|------------------------|---------------------------------|---------|
| GTX100622    | Oct4 antibody                       | Human, Mouse           | WB, ICC/IF, FCM, IP             | 25 µl   |
| GTX109636    | c-Myc antibody [N1], N-term         | Human                  | WB                              | 25 µl   |
| GTX213110-01 | Goat Anti-Rabbit IgG antibody (HRP) | Rabbit                 | WB, IHC-P, ELISA                | 25 µl   |
| GTX48037     | SSEA-4 antibody [MC-813-70]         | Human                  | WB, ICC/IF, IHC-P, FCM, IP, IHC | 25 µl   |
| GTX636505    | SOX2 antibody [HL1193]              | Human, Mouse, Rat, Cat | WB, ICC/IF, IHC-P, IP           | 25 µl   |

### Note

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## Oct4 antibody

Cat. No. GTX100622

|              |                     |
|--------------|---------------------|
| Host         | Rabbit              |
| Clonality    | Polyclonal          |
| Isotype      | IgG                 |
| Applications | WB, ICC/IF, FCM, IP |
| Reactivity   | Human, Mouse        |

References ( 4 )

Package

100 µl, 25 µl

## Applications

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

| Suggested dilution | Recommended dilution |
|--------------------|----------------------|
| WB                 | 1:1000-1:20000       |
| ICC/IF             | 1:100-1:1000         |
| FCM                | 1:50-1:200           |
| IP                 | 1:500-1:1000         |

Not tested in other applications.

Calculated MW 39 kDa. ( [Note](#) )

## Properties

|               |  |
|---------------|--|
| Form          | Liquid   |
| Buffer        | PBS, 1% BSA, 20% Glycerol  |
| Preservative  | 0.025% ProClin 300   |
| Storage       | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |
| Concentration | 0.32 mg/ml (Please refer to the vial label for the specific concentration.)  |
| Immunogen     | Recombinant protein encompassing a sequence within the center region of human Oct4. The exact sequence is proprietary.   |
| Purification  | Purified by antigen-affinity chromatography.   |
| Conjugation   | Unconjugated   |

## Note

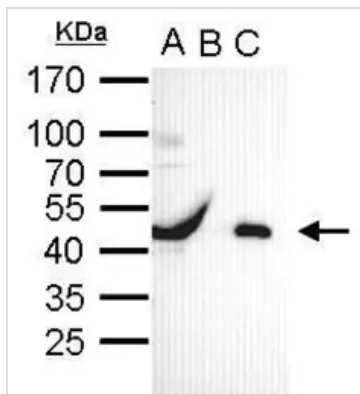
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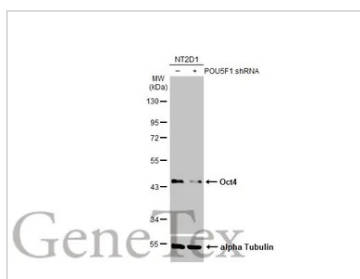


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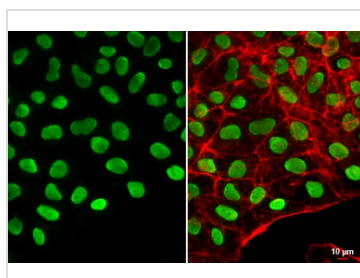
## DATA IMAGES


**GTX100622 IP Image**

Oct4 antibody immunoprecipitates Oct4 protein in IP experiments. IP Sample: cell lysate/extract of Oct4 gene transfected 293T cells A. Cell lysate/extract of transfected 293T cell B. Control with 2 µg of preimmune rabbit IgG C. Immunoprecipitation of Oct4 by 2 µg of Oct4 antibody (GTX100622) 12% SDS-PAGE The immunoprecipitated Oct4 protein was detected by Oct4 antibody (GTX100622) diluted at 1:1000. EasyBlot anti-rabbit IgG (GTX221666-01) was used as a secondary reagent.


**GTX100622 WB Image**

Non-transfected (–) and transfected (+) NT2D1 whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with Oct4 antibody (GTX100622) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.


**GTX100622 ICC/IF Image**

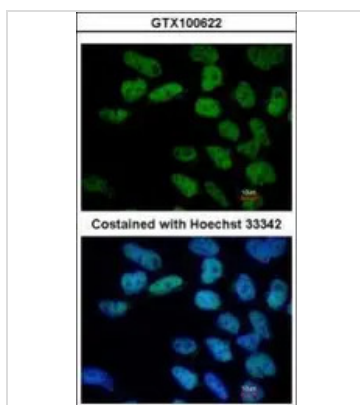
Oct4 antibody detects Oct4 protein at nucleus by immunofluorescent analysis.

Sample: NT2D1 cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: Oct4 stained by Oct4 antibody (GTX100622) diluted at 1:500.

Red: phalloidin, a cytoskeleton marker, diluted at 1:200.

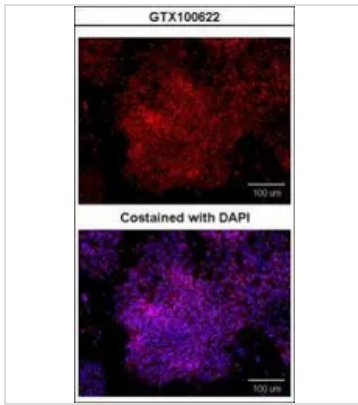
Scale bar= 10 µm.


**GTX100622 ICC/IF Image**

Immunofluorescence analysis of paraformaldehyde-fixed Human ESC, using Oct4(GTX100622) antibody at 1:400 dilution.

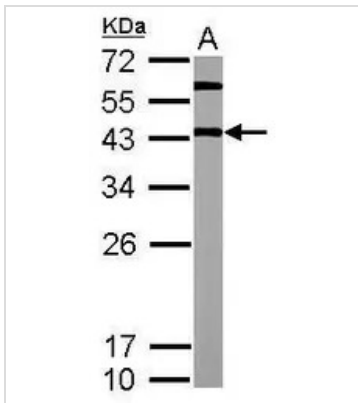


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#### GTX100622 ICC/IF Image

Immunofluorescence analysis of paraformaldehyde-fixed human embryonic stem cell, using Oct4(GTX100622) antibody at 1:100 dilution.



#### GTX100622 WB Image

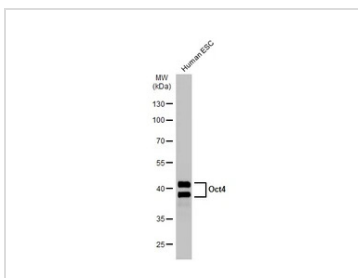
Sample (20 μg of whole cell lysate)

A: mouse ESC

12% SDS PAGE

GTX100622 diluted at 1:5000

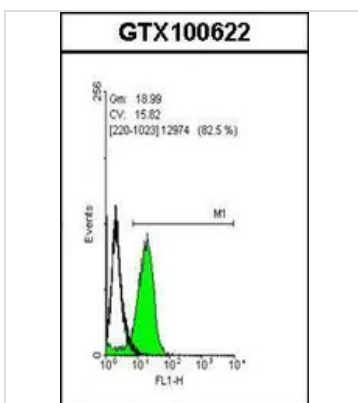
The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



#### GTX100622 WB Image

Human tissue extract (30 μg) was separated by 10% SDS-PAGE, and the membrane was blotted with Oct4 antibody (GTX100622) diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

The observed M.W. is based on the publication: PMID: 23642364

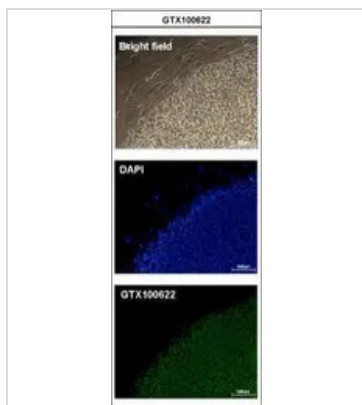


#### GTX100622 FCM Image

Flow cytometry on human embryonic stem cells, staining with Oct4 (GTX100622) antibody at 1:50 dilution(green) or rabbit IgG (black).



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## GTX100622 ICC/IF Image

Immunofluorescence analysis of paraformaldehyde-fixed human embryonic stem cell, using Oct4(GTX100622) antibody at 1:200 dilution.



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## c-Myc antibody [N1], N-term

Cat. No. GTX109636

|              |            |
|--------------|------------|
| Host         | Rabbit     |
| Clonality    | Polyclonal |
| Isotype      | IgG        |
| Applications | WB         |
| Reactivity   | Human      |

References ( 4 )

Package

100 µl, 25 µl

## Applications

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

| Suggested dilution | Recommended dilution |
|--------------------|----------------------|
| WB                 | Assay dependent      |

Not tested in other applications.

**Calculated MW** 49 kDa. ( [Note](#) )

**Product Note** This antibody can detect the endogenous c-Myc, but it is unable to recognize the c-Myc tag.

## Properties

|               |  |
|---------------|--|
| Form          | Liquid   |
| Buffer        | PBS, 20% Glycerol  |
| Preservative  | 0.025% ProClin 300   |
| Storage       | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |
| Concentration | 2.17 mg/ml (Please refer to the vial label for the specific concentration.)  |
| Immunogen     | Recombinant protein encompassing a sequence within the N-terminus region of human c-Myc. The exact sequence is proprietary.  |
| Purification  | Purified by antigen-affinity chromatography.   |
| Conjugation   | Unconjugated   |

## Note

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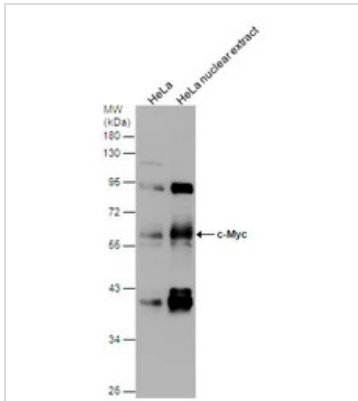
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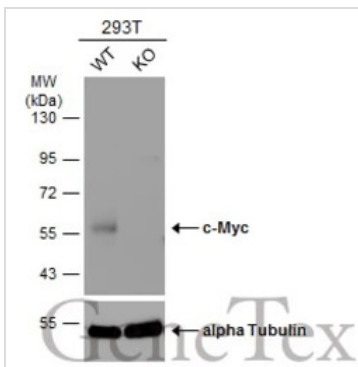
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## DATA IMAGES


**GTx109636 WB Image**

c-Myc antibody [N1], N-term detects c-Myc protein by Western blot analysis. HeLa whole cell extracts and nuclear extracts (30  $\mu$ g) were separated by 10% SDS-PAGE, and the membrane was blotted with c-Myc antibody [N1], N-term (GTx109636) diluted at 1:1000.


**GTx109636 WB Image**

Wild-type (WT) and c-Myc knockout (KO) 293T cell extracts (30  $\mu$ g) were separated by 10% SDS-PAGE, and the membrane was blotted with c-Myc antibody [N1], N-term (GTx109636) diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody (GTx213110-01) was used to detect the primary antibody.



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## Goat Anti-Rabbit IgG antibody (HRP)

Cat. No. GTX213110-01

|              |                  |
|--------------|------------------|
| Host         | Goat             |
| Clonality    | Polyclonal       |
| Isotype      | IgG              |
| Applications | WB, IHC-P, ELISA |
| Reactivity   | Rabbit           |

References ( 584 )

Package

1 ml

## Applications

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

| Suggested dilution | Recommended dilution |
|--------------------|----------------------|
| WB                 | 1:5000-1:20000       |
| IHC-P              | 1:100-1:1000         |
| ELISA              | 1:5000-1:20000       |

Not tested in other applications.

## Properties

|               |  |
|---------------|--|
| Form          | Liquid   |
| Buffer        | 0.05M Tris, 0.15M NaCl, 1%BSA  |
| Preservative  | 0.025% ProClin 300   |
| Storage       | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |
| Concentration | 0.53 mg/ml (Please refer to the vial label for the specific concentration.)  |
| Immunogen     | Highly purified whole rabbit IgG   |
| Purification  | Purified by antigen-affinity chromatography.   |
| Conjugation   | Horseradish peroxidase(HRP)  |

## Note

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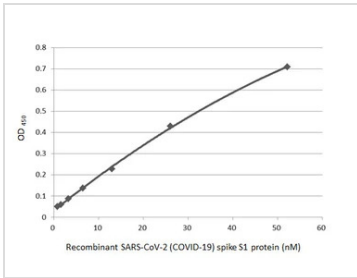
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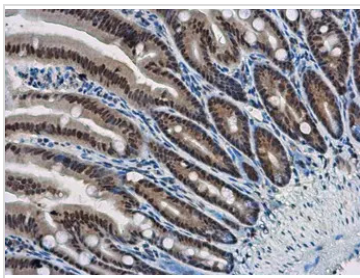


DATA IMAGES



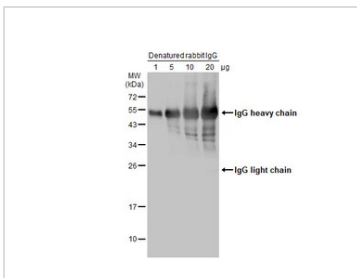
**GTX213110-01 ELISA Image**

Indirect ELISA analysis performed by coating plate with recombinant SARS-CoV-2 (COVID-19) Spike S1 protein, His tag (active) (GTX135817-pro) (52.15-0.81 nM). Coated protein was probed with SARS-CoV-2 (COVID-19) Spike S1 antibody [HL134] (GTX635671) (1 µg/mL). Goat anti-rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) was used to detect bound primary antibody.



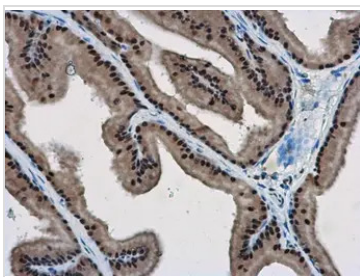
**GTX213110-01 IHC-P Image**

WBP11 antibody detects WBP11 protein at nucleus in mouse intestine by immunohistochemical analysis.  
Sample: Paraffin-embedded mouse intestine.  
WBP11 antibody (GTX118654) diluted at 1:500.  
The signal was developed by Rabbit IgG antibody (HRP) (GTX213110-01)  
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



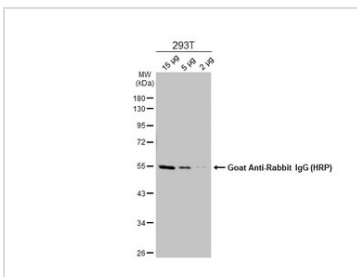
**GTX213110-01 WB Image**

Various amounts of denatured rabbit IgG protein were separated by 12% SDS-PAGE, and the membrane was blotted with HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) diluted at 1:5000.



**GTX213110-01 IHC-P Image**

WBP11 antibody detects WBP11 protein at nucleus in rat prostate by immunohistochemical analysis.  
Sample: Paraffin-embedded rat prostate.  
WBP11 antibody (GTX118654) diluted at 1:500.  
The signal was developed by Rabbit IgG antibody (HRP) (GTX213110-01).  
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

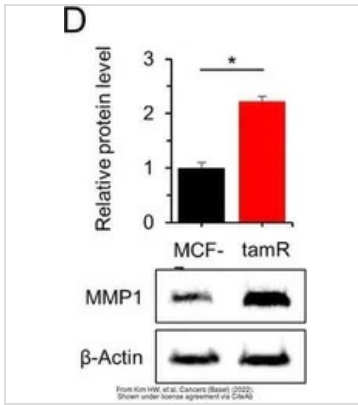


**GTX213110-01 WB Image**

Various whole cell extracts were separated by 10% SDS-PAGE, and the membrane was blotted with alpha Tubulin antibody (GTX112141) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

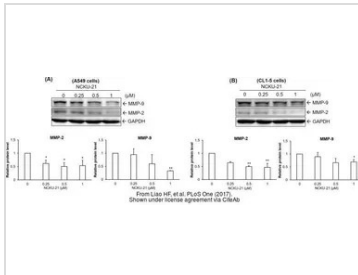


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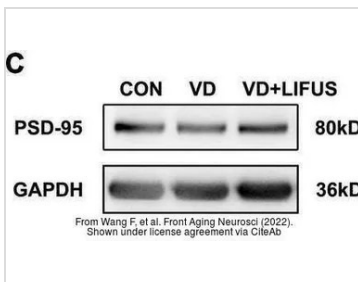
#### GTx213110-01 WB Image

The data was published in the 2022 in Cancers (Basel). [PMID: 35267540](#)



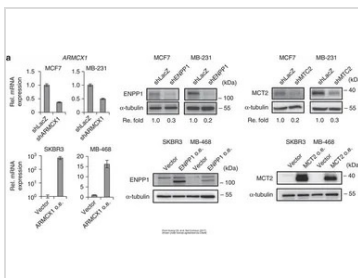
#### GTx213110-01 WB Image

The data was published in the journal PLoS One in 2017. [PMID: 28945763](#)



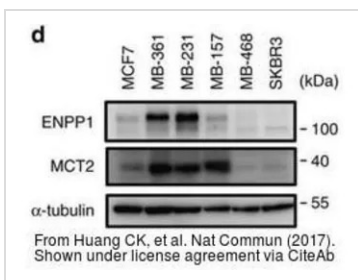
#### GTx213110-01 WB Image

The data was published in the 2022 in Front Aging Neurosci. [PMID: 35264943](#)



#### GTx213110-01 WB Image

The data was published in the 2017 in Nat Commun. [PMID: 28281525](#)

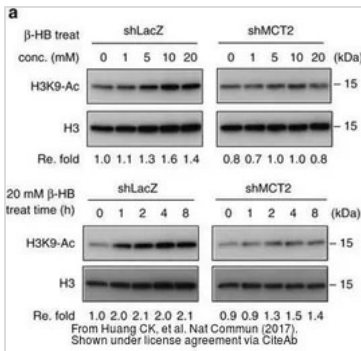


#### GTx213110-01 WB Image

The data was published in the 2017 in Nat Commun. [PMID: 28281525](#)

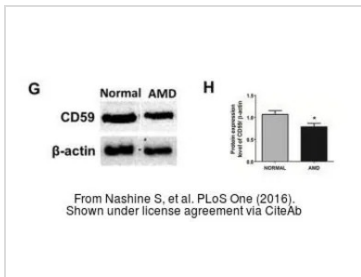


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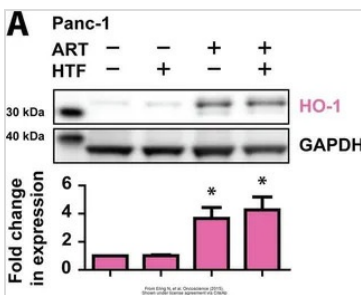
#### GTx213110-01 WB Image

The data was published in the 2017 in Nat Commun. [PMID: 28281525](#)



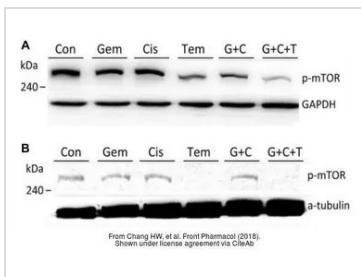
#### GTx213110-01 WB Image

The data was published in the 2016 in PLoS One. [PMID: 27486856](#)



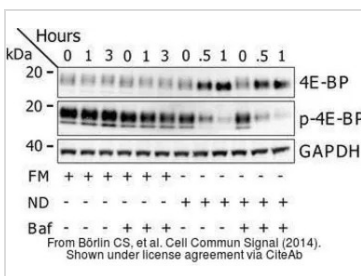
#### GTx213110-01 WB Image

The data was published in the journal Oncoscience in 2015. [PMID: 26097885](#)



#### GTx213110-01 WB Image

The data was published in the journal Front Pharmacol in 2018. [PMID: 30087612](#)

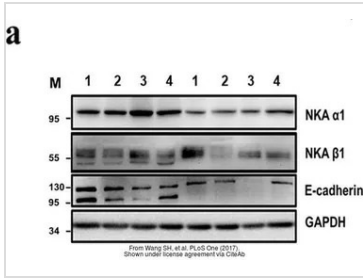


#### GTx213110-01 WB Image

The data was published in the journal Cell Commun Signal in 2014. [PMID: 25214434](#)

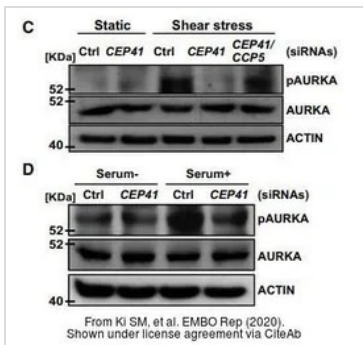


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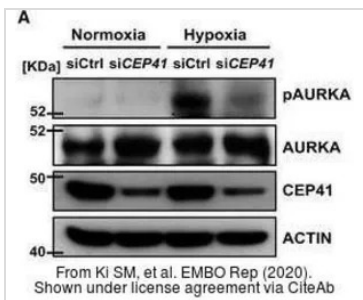
GTx213110-01 WB Image

The data was published in the journal PLoS One in 2017. [PMID: 28832634](https://pubmed.ncbi.nlm.nih.gov/28832634/)



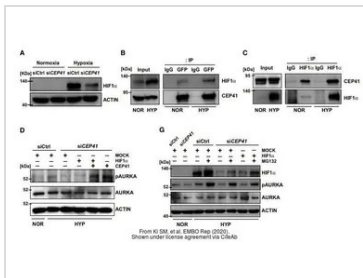
GTx213110-01 WB Image

The data was published in the journal EMBO Rep in 2020. [PMID: 31885126](https://pubmed.ncbi.nlm.nih.gov/31885126/)



GTx213110-01 WB Image

The data was published in the journal EMBO Rep in 2020. [PMID: 31885126](https://pubmed.ncbi.nlm.nih.gov/31885126/)



GTx213110-01 WB Image

The data was published in the journal EMBO Rep in 2020. [PMID: 31885126](https://pubmed.ncbi.nlm.nih.gov/31885126/)



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## SSEA-4 antibody [MC-813-70]

**Cat. No. GTX48037**

|                     |                                 |
|---------------------|---------------------------------|
| <b>Host</b>         | Mouse                           |
| <b>Clonality</b>    | Monoclonal                      |
| <b>Isotype</b>      | IgG3                            |
| <b>Applications</b> | WB, ICC/IF, IHC-P, FCM, IP, IHC |
| <b>Reactivity</b>   | Human                           |

References ( 6 )

Package

100 µg

## Applications

**Application Note**

\*Optimal dilutions/concentrations should be determined by the researcher.

| Suggested dilution | Recommended dilution |
|--------------------|----------------------|
| WB                 | Assay dependent      |
| ICC/IF             | Assay dependent      |
| IHC-P              | Assay dependent      |
| FCM                | Assay dependent      |
| IP                 | Assay dependent      |
| IHC                | Assay dependent      |

Not tested in other applications.

## Properties

|                      |  |
|----------------------|--|
| <b>Form</b>          | Liquid   |
| <b>Buffer</b>        | PBS, 0.05% BSA   |
| <b>Preservative</b>  | 0.05% Sodium azide   |
| <b>Storage</b>       | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |
| <b>Concentration</b> | 0.5 mg/ml (Please refer to the vial label for the specific concentration.)   |
| <b>Immunogen</b>     | Human embryonal carcinoma cell line 2102Ep   |
| <b>Purification</b>  | Purified by affinity chromatography  |
| <b>Conjugation</b>   | Unconjugated   |



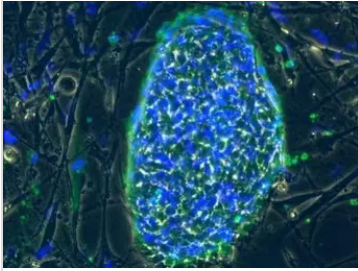
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**Note**

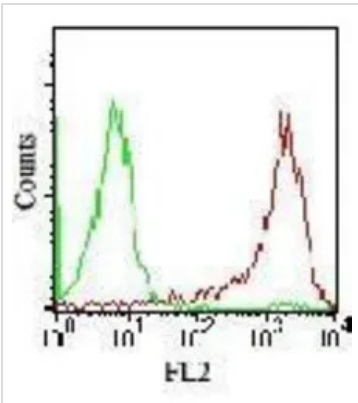
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#### DATA IMAGES



#### GTX48037 ICC/IF Image

ICC/IF analysis of H9 cells using GTX48037 SSEA-4 antibody.  
Green : Primary antibody



#### GTX48037 FCM Image

FACS analysis of 2102Ep cells using GTX48037 SSEA-4 antibody.  
Red : Primary antibody  
Green : Isotype control  
Antibody amount : 0.1 ug



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## SOX2 antibody [HL1193]

Cat. No. GTX636505

|                     |                        |
|---------------------|------------------------|
| <b>Host</b>         | Rabbit                 |
| <b>Clonality</b>    | Monoclonal             |
| <b>Isotype</b>      | IgG                    |
| <b>Applications</b> | WB, ICC/IF, IHC-P, IP  |
| <b>Reactivity</b>   | Human, Mouse, Rat, Cat |

★★★★★ Review ( 2 )

Package  
100 µl, 25 µl

## Applications

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

| Suggested dilution | Recommended dilution |
|--------------------|----------------------|
| WB                 | 1:500-1:3000         |
| ICC/IF             | Assay dependent      |
| IHC-P              | Assay dependent      |
| IP                 | Assay dependent      |

Not tested in other applications.

**Observed MW (kDa)** 34 kDa.

## Properties

|                      |  |
|----------------------|--|
| <b>Form</b>          | Liquid   |
| <b>Buffer</b>        | PBS  |
| <b>Preservative</b>  | No preservatives   |
| <b>Storage</b>       | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |
| <b>Concentration</b> | 1 mg/ml (Please refer to the vial label for the specific concentration.)   |
| <b>Immunogen</b>     | Recombinant fragment of human SOX2.  |
| <b>Purification</b>  | Affinity purified by Protein A.  |
| <b>Conjugation</b>   | Unconjugated   |

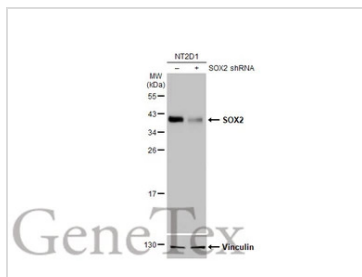
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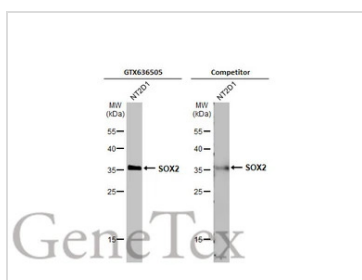
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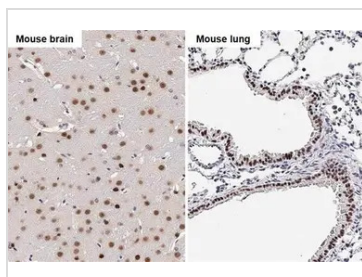
**DATA IMAGES**

**GTX636505 WB Image**

Non-transfected (-) and transfected (+) NT2D1 whole cell extract (30 µg) were separated by 12% SDS-PAGE, and the membrane was blotted with SOX2 antibody [HL1193] (GTX636505) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.


**GTX636505 WB Image**

Whole cell extract (30 µg) was separated by 12% SDS-PAGE, and the membranes were blotted with SOX2 antibody [HL1193] (GTX636505) diluted at 1:1000 and competitor's antibody (sc-17320) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

\*The competitor is not affiliated with GeneTex and does not endorse this product.

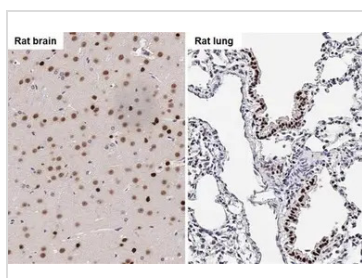

**GTX636505 IHC-P Image**

SOX2 antibody detects SOX2 protein by immunohistochemical analysis.

Sample: Paraffin-embedded mouse tissues.

SOX2 stained by SOX2 antibody (GTX636505) diluted at 1:100.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

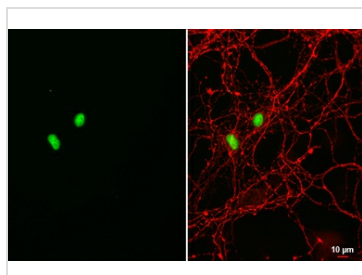

**GTX636505 IHC-P Image**

SOX2 antibody detects SOX2 protein by immunohistochemical analysis.

Sample: Paraffin-embedded rat tissues.

SOX2 stained by SOX2 antibody (GTX636505) diluted at 1:100.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min


**GTX636505 ICC/IF Image**

SOX2 antibody [HL1193] detects SOX2 protein at nucleus by immunofluorescent analysis.

Sample: DIV10 rat E18 primary hippocampal neuron cells were fixed in 4% paraformaldehyde at RT for 15 min.

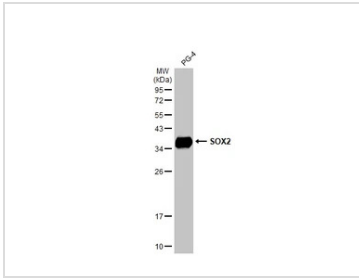
Green: SOX2 stained by SOX2 antibody [HL1193] (GTX636505) diluted at 1:500.

Red: Tau, an axon marker, stained by Tau antibody [GT287] (GTX634809) diluted at 1:500.



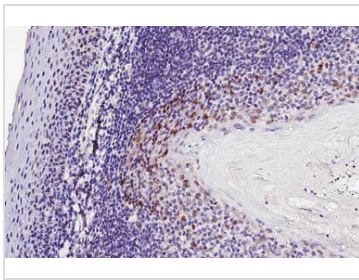
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## GTX636505 WB Image

Whole cell extract (30 µg) was separated by 12% SDS-PAGE, and the membrane was blotted with SOX2 antibody [HL1193] (GTX636505) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



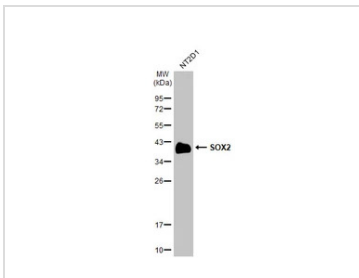
## GTX636505 IHC-P Image

SOX2 antibody [HL1193] detects SOX2 protein by immunohistochemical analysis.

Sample: Paraffin-embedded human tonsil.

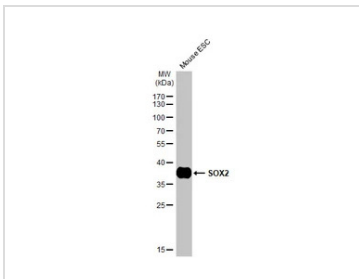
SOX2 stained by SOX2 antibody [HL1193] (GTX636505) diluted at 1:100.

Antigen Retrieval: Tris-EDTA buffer, pH 9.0, 15 min



## GTX636505 WB Image

Whole cell extract (30 µg) was separated by 12% SDS-PAGE, and the membrane was blotted with SOX2 antibody [HL1193] (GTX636505) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



## GTX636505 WB Image

Mouse ESC extract (50 µg) was separated by 12% SDS-PAGE, and the membrane was blotted with SOX2 antibody [HL1193] (GTX636505) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



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