

## Oct4 antibody [GT486]

**Cat. No. GTX627419**

|                     |                            |
|---------------------|----------------------------|
| <b>Host</b>         | Mouse                      |
| <b>Clonality</b>    | Monoclonal                 |
| <b>Isotype</b>      | IgG2a                      |
| <b>Applications</b> | WB, ICC/IF, IHC-P, FCM, IP |
| <b>Reactivity</b>   | Human, Mouse               |

References ( 18 )

★★★★☆ Review ( 4 )

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             | 1:100-1:1000         |
| IHC-P              | 1:100-1:1000         |
| FCM                | 1:50-1:200           |
| IP                 | 1:1000-1:1000        |

Not tested in other applications.

**Observed MW (kDa)** 45 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 protein encompassing a sequence within the center region of human Oct4. The exact sequence is proprietary.                                                                                                     |
| <b>Purification</b>  | Purified by antigen-affinity chromatography.<br>From tissue culture supernatant                                                                                                                                            |
| <b>Conjugation</b>   | Unconjugated                                                                                                                                                                                                               |

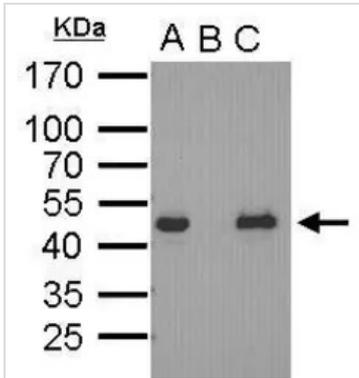
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#### Note

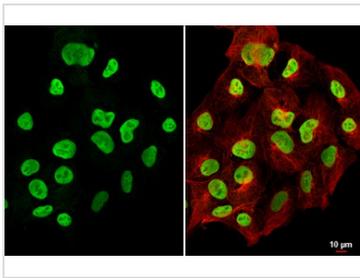
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#### DATA IMAGES



#### GTX627419 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 mouse IgG C. Immunoprecipitation of Oct4 by 2 µg of Oct4 antibody (GTX627419) 12% SDS-PAGE The immunoprecipitated Oct4 protein was detected by Oct4 antibody (GTX627419) diluted at 1:1000. EasyBlot anti-mouse IgG (GTX221667-01) was used as a secondary reagent.



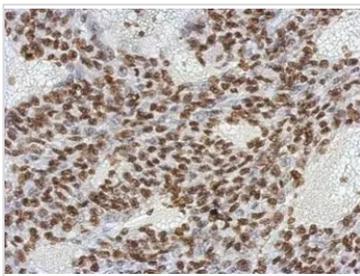
#### GTX627419 ICC/IF Image

Oct4 antibody [GT486] 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 [GT486] (GTX627419) diluted at 1:500.

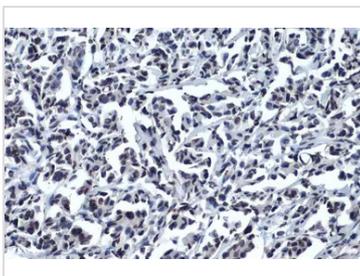
Red: beta Tubulin, a cytoskeleton marker, stained by beta Tubulin antibody (GTX101279) diluted at 1:1000.



#### GTX627419 IHC-P Image

Immunohistochemical analysis of paraffin-embedded BT483 xenograft, using OCT3/4(GTX627419) antibody at 1:200 dilution.

Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min



#### GTX627419 IHC-P Image

Oct4 antibody [GT486] detects Oct4 protein at nucleus by immunohistochemical analysis.

Sample: Paraffin-embedded human breast carcinoma.

Oct4 stained by Oct4 antibody [GT486] (GTX627419) diluted at 1:500.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



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