

## N-Cadherin antibody

Cat. No. GTX127345

<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Applications</b>	WB, ICC/IF, IHC-P, IHC-Fr
<b>Reactivity</b>	Human, Mouse, Rat, Monkey

References ( 95 )

 Review ( 3 )

Package

100 µl, 25 µl

## PRODUCT

## Summary

N-Cadherin antibody recognizes N-cadherin protein, a calcium-dependent cell adhesion protein (predicted molecular weight of 100 kDa) encoded by the CDH2 gene. N-cadherin is involved in multiple processes, including neuron development and epithelial-mesenchymal transition (EMT). Due to the prominent role of EMT in cancer progression and metastasis, antibodies targeting either N-cadherin or E-cadherin are frequently used together to study the EMT process: the upregulation of N-cadherin followed by the downregulation of E-cadherin.

## 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
IHC-Fr	1:100-1:1000

Not tested in other applications.

**Calculated MW** 100 kDa. ([Note](#))

## Properties

<b>Form</b>	Liquid
<b>Buffer</b>	PBS, 1% BSA, 20% Glycerol
<b>Preservative</b>	0.025% ProClin 300
<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>	0.15 mg/ml (Please refer to the vial label for the specific concentration.)
<b>Immunogen</b>	Synthetic peptide encompassing a sequence within the Intracellular domain of human N-Cadherin. The exact sequence is proprietary.



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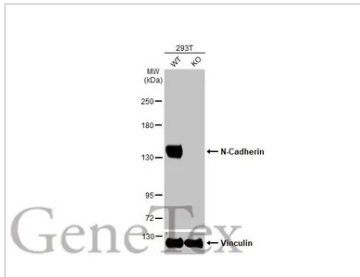
**Purification** Purified by antigen-affinity chromatography.

**Conjugation** Unconjugated

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

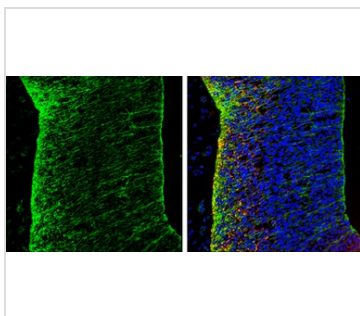
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DATA IMAGES



**GTX127345 WB Image**

Wild-type (WT) and N-Cadherin knockout (KO) 293T cell extracts (30 µg) were separated by 5% SDS-PAGE, and the membrane was blotted with N-Cadherin antibody (GTX127345) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



**GTX127345 IHC-Fr Image**

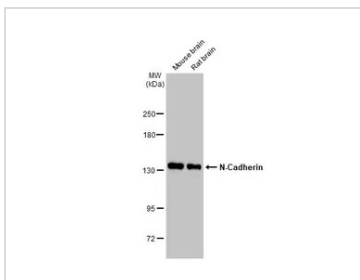
N-Cadherin antibody detects N-Cadherin protein expression by immunohistochemical analysis.

Sample: Frozen sectioned E13.5 Rat brain.

Green: N-Cadherin protein stained by N-Cadherin antibody (GTX127345) diluted at 1:250.

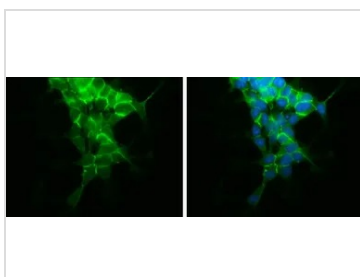
Red: beta Tubulin 3/ TUJ1, a mature neuron marker, stained by beta Tubulin 3/ TUJ1 antibody [GT11710] (GTX631836) diluted at 1:500.

Blue: Fluoroshield with DAPI (GTX30920).



**GTX127345 WB Image**

Various tissue extracts (50 µg) were separated by 5% SDS-PAGE, and the membrane was blotted with N-Cadherin antibody (GTX127345) diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



**GTX127345 ICC/IF Image**

N-Cadherin antibody detects N-Cadherin protein at cell membrane by immunofluorescent analysis.

Sample: SH-SY5Y cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: N-Cadherin protein stained by N-Cadherin antibody (GTX127345) diluted at 1:500.

Blue: Hoechst 33342 staining.



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