

Rabbit N Cadherin Polyclonal Antibody | anti-CDH2 antibody

N Cadherin Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31337	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA, Immunohistochemistry, Immunohistochemistry

PRODUCT SYNONYMS

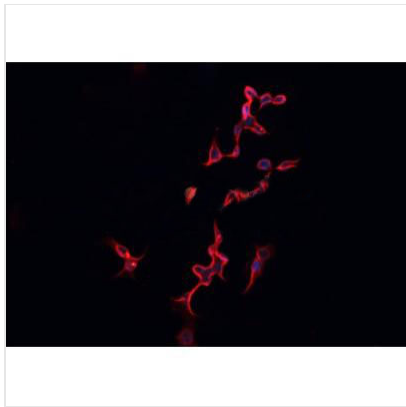
N Cadherin; Polyclonal Antibody; N Cadherin Antibody; CADH2_HUMAN; Cadherin 2; Cadherin 2 N cadherin neuronal; Cadherin 2 type 1; Cadherin 2 type 1 N cadherin neuronal; type 1; N-cadherin (neuronal); Cadherin-2; Cadherin2; Calcium dependent adhesion protein neuronal; CD325; CD325 antigen; CDH2; CDHN; CDw325; CDw325 antigen; N cadherin 1; N-cadherin; NCAD; Neural cadherin; OTTHUMP00000066304; OTTHUMP00000067378; anti-CDH2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	N Cadherin Antibody detects endogenous levels of total N Cadherin.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CDH2 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA (Peptide ELISA), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Application Notes	WB: 1:500-1:1000 IHC: 1:50-200 IF/ICC: 1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human N Cadherin, corresponding to a region within C-terminal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Cleaved by MMP24. Ectodomain cleavage leads to the generation of a soluble 90kDa amino-terminal soluble fragment and a 45kDa membrane-bound carboxy-terminal fragment 1 (CTF1), which is further cleaved by gamma-secretase into a 35kDa. Cleavage in neural stem cells by MMP24 affects CDH2-mediated anchorage of neural stem cells to ependymocytes in the adult subependymal zone, leading to modulate neural stem cell quiescence (By similarity). May be phosphorylated by OBSCN.
Subunit Structure	Homodimer (via extracellular region). Can also form heterodimers with other cadherins (via extracellular region). Dimerization occurs in trans, i.e. with a cadherin chain from another cell (By similarity). Interacts with CDCP1. Interacts with PCDH8; this complex may also include TAOK2 (By similarity). The interaction with PCDH8 may lead to internalization through TAOK2/p38 MAPK pathway (By similarity). Identified in a complex containing FGFR4, NCAM1, CDH2, PLCG1, FRS2, SRC, SHC1, GAP43 and CTTN. May interact with OBSCN (via protein kinase domain 2) (By similarity).

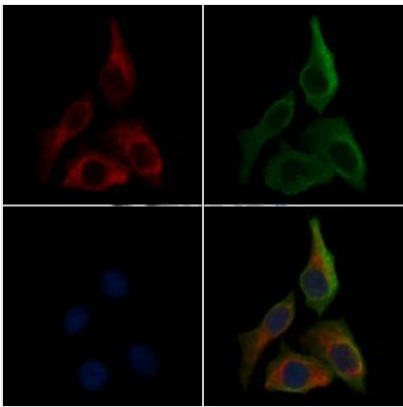
Similarity	Three calcium ions are usually bound at the interface of each cadherin domain and rigidify the connections, imparting a strong curvature to the full-length ectodomain. Calcium-binding sites are occupied sequentially in the order of site 3, then site 2 and site 1.
Subcellular Location	Cell membrane>Single-pass type I membrane protein. Cell membrane>Sarcolemma. Cell junction. Cell surface. Note: Colocalizes with TMEM65 at the intercalated disk in cardiomyocytes. Colocalizes with OBSCN at the intercalated disk and at sarcolemma in cardiomyocytes.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



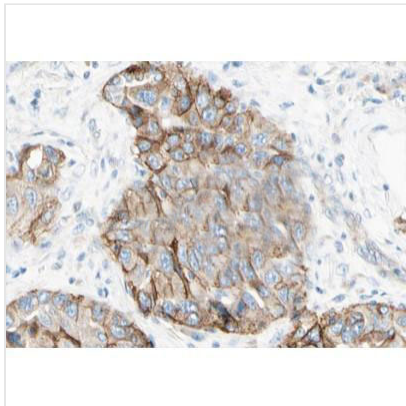
Application Data

At 37 degree C. The primary antibody was diluted 1/200 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



Application Data

At 25 degree C. Samples were then incubated with primary Ab(At 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI(blue).



IHC (Immunohistochemistry)

At 1/100 staining human lung carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



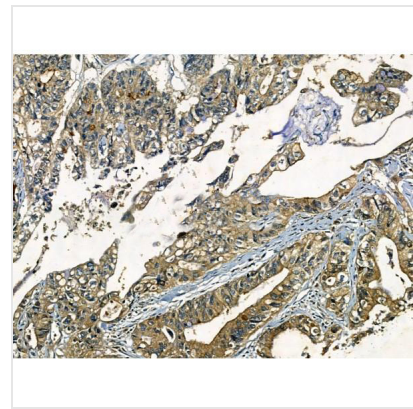
IHC (Immunohistochemistry)

At 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CDH2 antibody

Calcium-dependent cell adhesion protein; preferentially mediates homotypic cell-cell adhesion by dimerization with a CDH2 chain from another cell. Cadherins may thus contribute to the sorting of heterogeneous cell types. Acts as a regulator of neural stem cells quiescence by mediating anchorage of neural stem cells to ependymocytes in the adult subependymal zone: upon cleavage by MMP24, CDH2-mediated anchorage is affected, leading to modulate neural stem cell quiescence. CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density.

Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density

NCBI AND UNIPROT INFORMATION

NCBI GI #	14589889
NCBI GeneID	1000
NCBI Accession #	NP_001783.2
NCBI GenBank Nucleotide #	NM_001792.3
UniProt Accession #	P19022 ; Q14923 ; Q8N173 ; B0YIY6
Molecular Weight	99,809 Da
NCBI Official Full Name	cadherin-2 preproprotein
NCBI Official Synonym Full Names	cadherin 2, type 1, N-cadherin (neuronal)
NCBI Official Symbol	CDH2
NCBI Official Synonym Symbols	CDHN; NCAD; CD325; CDw325
NCBI Protein Information	cadherin-2; N-cadherin 1; neural cadherin; neural-cadherin; cadherin 2, N-cadherin (neuronal); calcium-dependent adhesion protein, neuronal
UniProt Protein Name	Cadherin-2
UniProt Gene Name	CDH2
UniProt Synonym Gene Names	CDHN; NCAD; N-cadherin
UniProt Entry Name	CADH2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/n-cadherin-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-peptide-elisa-immunohistochemistry-immunohistochemistry-elisa/31337>