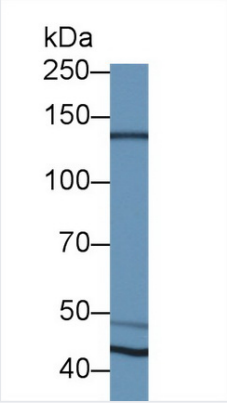
Cadherin, Neuronal (CDH2) Antibody – Rabbit Polyclonal

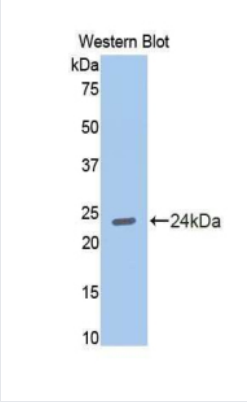
PRODUCT OVERVIEW

Product Name	Cadherin, Neuronal (CDH2), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Cadherin, Neuronal (CDH2)
Product Gene Name	anti-CDH2 antibody
Immunogen Sequence	Antigen: The target protein is fused with N-terminal His-Tag and its sequence is listed below. MGHHHHHHSG SEF-AMTFYG E VPENRVDVIV ANLTVTDKDQ PHTPAWNAAY RISGGDPTGR FAILTDPNSN DGLVTVVKPI DFETNRMFVL TVAAENQVPL AKGIQHPPQS TATVSVTVID VNENPYFAPN PKIIRQEEGL HAGTMLTTLT AQDPDRYMQQ NIRYTKLSDP ANWLKIDPVN GQITTIAVLD RE
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Human, Rat
Form/Format	Supplied as solution form in PBS, pH7.4, containing 0.02% NaN3,50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	500ug/mL (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against CDH2. It has been selected for its ability to recognize CDH2 in immunohistochemical staining andwestern blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C to -80 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Matching Pairs	Unconjugated Antibody: CDH2 (MBS2003736) Immunogen: CDH2 (MBS2010645)
Matching Pairs	Unconjugated Antibody: CDH2 (MBS2003736) APC-CY7 Conjugated Antibody: CDH2 (MBS2055718)
Matching Pairs	Unconjugated Antibody: CDH2 (MBS2003736) PE Conjugated Antibody: CDH2 (MBS2055720)
Matching Pairs	Unconjugated Antibody: CDH2 (MBS2003736) APC Conjugated Antibody: CDH2 (MBS2055722)
Matching Pairs	Unconjugated Antibody: CDH2 (MBS2003736) Cy3 Conjugated Antibody: CDH2 (MBS2055724)
Matching Pairs	Unconjugated Antibody: CDH2 (MBS2003736) FITC Conjugated Antibody: CDH2 (MBS2055726)
Matching Pairs	Unconjugated Antibody: CDH2 (MBS2003736) HRP Conjugated Antibody: CDH2 (MBS2055728)
Matching Pairs	Unconjugated Antibody: Cadherin, Neuronal (CDH2) (MBS2003736) APC-CY7 Conjugated Secondary Antibody: Immunoglobulin G (MBS2090675)
Matching Pairs	Unconjugated Antibody: Cadherin, Neuronal (CDH2) (MBS2003736) Unconjugated Secondary Antibody: Immunoglobulin G (MBS2090678)
Matching Pairs	Unconjugated Antibody: CDH2 (MBS2003736) Biotin Conjugated Antibody: CDH2 (MBS2093368)
Molecular Weight	99,796 Da

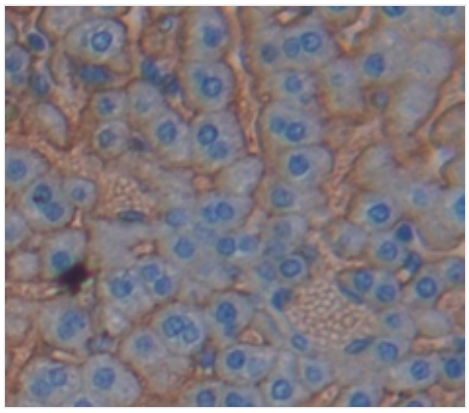
3D Structure	ModBase 3D Structure for P15116
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	Recombinant CDH2 (Ala384~Glu562) expressed in E.coli.
Cross Reactivity	Mouse
Conjugated Antibody	The APC conjugated antibody version of this item is also available as catalog #MBS2055722
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CDH2 antibody	Immunocytochemistry (ICC), Immunohistochemistry (IHC) - Formalin/Paraffin, ELISA (EIA), Western Blot (WB)
Application Notes for anti-CDH2 antibody	Western blotting: 1:100-400 Immunocytochemistry in formalin fixed cells: 1:100-500 Immunohistochemistry in formalin fixed frozen section: 1:100-500 Immunohistochemistry in paraffin section: 1:50-200 Enzyme-linked Immunosorbent Assay: 1:100-200
Related Product Information for anti-CDH2 antibody	MBS2003736 is an antibody targeting CDH2. Also known as Polyclonal Antibody to Cadherin, Neuronal (CDH2). Reactive in Mouse, Human, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CDH2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CDH2 antibody
Western Blot: Sample: Mouse Kidney lysate; Primary Ab: 2ug/ml Rabbit Anti-Mouse CDH2 Antibody Second Ab: 0.2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody



Western Blot (WB) of anti-CDH2 antibody
Western Blot: Sample: Recombinant protein.



Immunohistochemistry (IHC) of anti-CDH2 antibody
DAB staining on IHC-P. Samples: Mouse Tissue)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDH2. It may not necessarily be applicable to this product.

NCBI GI #	161760627
NCBI GeneID	12558
NCBI Accession #	NP_031690.3
UniProt Primary Accession #	P15116
UniProt Secondary Accession #	Q64260; Q6GU11
UniProt Related Accession #	P15116
GenBank Nucleotide #	NM_007664.5
NCBI Official Full Name	cadherin-2 preproprotein
NCBI Official Synonym Full Names	cadherin 2
NCBI Official Symbol	Cdh2
NCBI Official Synonym Symbols	CDHN; Ncad; N-CAD
UniProt Protein Name	Cadherin-2
UniProt Synonym Protein Names	Neural cadherin; N-cadherin; CD_antigen: CD325
Protein Family	Cadherin
UniProt Gene Name	Cdh2
UniProt Synonym Gene Names	N-cadherin
NCBI Protein Information	cadherin-2
NCBI Summary for CDH2	This gene encodes a member of the cadherin family of calcium-dependent glycoproteins that mediate cell adhesion. The encoded preproprotein undergoes proteolytic processing to generate a mature protein. Mice lacking the encoded protein exhibit severe developmental defects resulting in embryonic death. [provided by RefSeq, Oct 2015]
UniProt Comments for CDH2	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. 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 (PubMed:24952463). CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density.
Research Articles on CDH2	**1.** Migration of bone marrow-mesenchymal stem cells in response to TGF-beta was mediated through N-cadherin and noncanonical TGF-beta signals.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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