CDH2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDH2, Monoclonal Antibody
Full Product Name	CDH2 (Cadherin 2, Type 1, N-Cadherin (Neuronal), CD325, CDHN, CDw325, NCAD) (PE)
Product Gene Name	anti-CDH2 antibody
Product Synonym Names	Cadherin 2; Type 1; N-Cadherin (Neuronal); CD325; CDHN; CDw325; NCAD
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3B11
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified
Specificity	Recognizes CDH2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recover of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	62.9kDa (574aa) 70-100kDa (SDS-PAGE under reducing conditions)
OMIM	114020
3D Structure	ModBase 3D Structure for P19022
Immunogen	CDH2 (NP_001783, 807aa-906aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	RRMDERPIHAEPQYPVRSAAPHPGDIGDFINEGLKAADNDPTAPPYDSLLVFDYEGSGSTAGSLSSLNSSSSGGEQDYDYLNDWGPRFKKLADMYGGG
Conjugate	PE
Product Categories/Family for anti-CDH2 antibody	Antibodies; Cadherin
Applications Tested/Suitable for anti-CDH2 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-CDH2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDH2 antibody	This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium dependent cell-cell adhesion glycoprotein comprised five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. The protein functions during gastrulation and is required for establishment of left-right asymmetry. At certain central nervous system synapses, presynaptic to postsynaptic adhesion is mediated at lea in part by this gene product. [provided by RefSeq]

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.
Searchable Terms for CDH2 purchase	MBS6187160 is an antibody targeting CDH2. Also known as CDH2 (Cadherin 2, Type 1, N-Cadherin (Neuronal), CD325, CDHN, CDw325, NCAD) (PE Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	14589889
NCBI GeneID	1000
NCBI Accession #	NP_001783
UniProt Primary Accession #	P19022
UniProt Secondary Accession #	Q14923; Q8N173; A8MWK3; B0YIY6
UniProt Related Accession #	P19022
GenBank Nucleotide #	NM_001792.4
NCBI Official Full Name	cadherin-2 isoform 1 preproprotein
NCBI Official Synonym Full Names	cadherin 2
NCBI Official Symbol	CDH2
NCBI Official Synonym Symbols	CDHN; NCAD; CD325; CDw325
UniProt Protein Name	Cadherin-2
UniProt Synonym Protein Names	CDw325; Neural cadherin
Protein Family	Cadherin
UniProt Gene Name	CDH2
UniProt Synonym Gene Names	CDHN; NCAD; N-cadherin
UniProt Entry Name	CADH2_HUMAN
NCBI Protein Information	cadherin-2
NCBI Summary for CDH2	This gene encodes a classical cadherin and member of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein is proteolytically processed to generate a calcium-dependent cell adhesion molecule and glycoprotein. This protein plays a role in the establishment of left-right asymmetry, development of the nervous system and the formation of cartilage and bone. [provided by RefSeq, Nov 2015]

UniProt Comments for CDH2	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. CDH2 may be involved in neuronal recognition mechanism. In hippocampal neurons, may regulate dendritic spine density. Interacts with CDCP1. Identified in a complex containing FGFR4, NCAM1, CDH2, PLCG1, FRS2, SRC, SHC1, GAP43 and CTTN. Interacts with PCDH8; this complex may also include TAOK2. The interaction with PCDH8 may lead to internalization through TAOK2/p38 MAPK pathway. Protein type: Motility/polarity/chemotaxis; Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: 18q11.2 Cellular Component: cell-cell adherens junction; focal adhesion; lamellipodium; apical plasma membrane; integral to membrane; plasma membrane; synapse; intercellular junction; fascia adherens; catenin complex Molecular Function: protein binding; gamma-catenin binding; beta-catenin binding; calcium ion binding; protein phosphatase binding; alpha-catenin binding Biological Process: heterophilic cell adhesion; intercellular junction assembly and maintenance; muscle cell differentiation; cell migration; glial cell differentiation; positive regulation of MAPKKK cascade; calcium-dependent cell-cell adhesion; blood vessel morphogenesis; positive regulation of muscle cell differentiation; striated muscle cell differentiation; cell adhesion; homophilic cell adhesion
Research Articles on CDH2	**1.** Sec8 regulates N-cadherin expression by controlling Smad3 and Smad4 expression through CBP, thereby mediating the epithelial-mesenchymal transition.
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