CDH18 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDH18, Monoclonal Antibody
Full Product Name	CDH18 (Ey-Cadherin, Cadherin-18, Cadherin-14, CDH14) (MaxLight 750)
Product Gene Name	anti-CDH18 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	6F7
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CDH18.
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 amo prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery o centrifuge the original vial prior to removing the cap.
OMIM	603019
3D Structure	ModBase 3D Structure for Q13634
Immunogen	Partial recombinant corresponding to aa467-576 from human CDH18 (NP_004925) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	DLLSHVTVGIRVLDVNDNPPELAREYDIIVCENSKPGQVIHTISATDKDDFANGPRFNFFLDERLPVNPNFTLKDNEDNTASILTRRRRFSRTVQDVYYLPIM
Conjugate	MaxLight750
Product Categories/Family for anti-CDH18 antibody	Antibodies; Cadherin
Applications Tested/Suitable for anti-CDH18 antibody	FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-CDH18 antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-CDH18 antibody	MBS6232072 is an antibody targeting CDH18. Also known as CDH18 (Ey-Cadherin, Cadherin-18, Cadherin-14, CDH14) (MaxLight 750). Reactive in H Host: Mouse.

Other Notes	Small volumes of anti-CDH18 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces 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 add dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDH18. It may not necessarily be applicable to this product.

NCBI GI #	4826671
NCBI GeneID	1016
NCBI Accession #	NP_004925
UniProt Primary Accession #	Q13634
UniProt Related Accession #	Q13634
GenBank Nucleotide #	NM_004934
NCBI Official Full Name	cadherin-18 isoform 1 preproprotein
NCBI Official Synonym Full Names	cadherin 18
NCBI Official Symbol	CDH18
NCBI Official Synonym Symbols	CDH14; CDH24; CDH14L
UniProt Protein Name	Cadherin-18
UniProt Synonym Protein Names	Cadherin-14
Protein Family	Cadherin
UniProt Gene Name	CDH18
UniProt Synonym Gene Names	CDH14
UniProt Entry Name	CAD18_HUMAN
NCBI Protein Information	cadherin-18
NCBI Summary for CDH18	This gene encodes a type II classical cadherin from the cadherin superfamily of integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. This particular cadherin is expressed specifically in the central nervous system and is putatively involved in synaptic adhesion, axon outgrowth and guidance. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2014]
UniProt Comments for CDH18	CDH18: 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. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: 5p14.3 Cellular Component: integral to membrane; plasma membrane Molecular Function: calcium ion binding Biological Process: intercellular junction assembly and maintenance; homophilic cell adhesion
Research Articles on CDH18	**1.** A role for PDLIM7 and CDH18, regulating MDM2 protein in CDK4/6 inhibitor-treated cells.

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