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PCDHA5 Antibody (monoclonal) (M01A)

Mouse monoclonal antibody raised against a partial recombinant PCDHA5.
Catalog # AT3219a

Product Information

Application	WB
Primary Accession	Q9Y5H7
Other Accession	NM_018908
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgM Kappa
Clone Names	1E9
Calculated MW	102048

Additional Information

Gene ID	56143
Other Names	Protocadherin alpha-5, PCDH-alpha-5, PCDHA5, CNRS6
Target/Specificity	PCDHA5 (NP_061731, 183 a.a. ~ 289 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PCDHA5 Antibody (monoclonal) (M01A) is for research use only and not for use in diagnostic or therapeutic procedures.

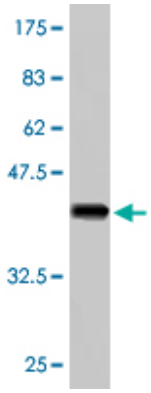
Background

This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined.

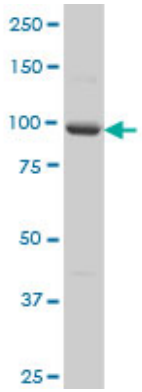
References

Systematic identification of SH3 domain-mediated human protein-protein interactions by peptide array target screening. Wu C, et al. Proteomics, 2007 Jun. PMID 17474147.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.The DNA sequence and comparative analysis of human chromosome 5. Schmutz J, et al. Nature, 2004 Sep 16. PMID 15372022.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.Comparative DNA sequence analysis of mouse and human protocadherin gene clusters. Wu Q, et al. Genome Res, 2001 Mar. PMID 11230163.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.51 KDa) .



PCDHA5 monoclonal antibody (M01A), clone 1E8 Western Blot analysis of PCDHA5 expression in HeLa ((Cat # AT3219a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.