10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PCDHB3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PCDHB3.
Catalog # AT3225a

Product Information

Application	WB, E
Primary Accession	Q9Y5E6
Other Accession	NM_018937
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4F6
Calculated MW	86714

Additional Information

Gene ID	56132
Other Names	Protocadherin beta-3, PCDH-beta-3, PCDHB3
Target/Specificity	PCDHB3 (NP_061760, 284 a.a. ~ 381 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
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	PCDHB3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

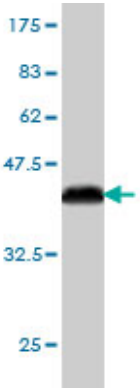
Background

This gene is a member of the protocadherin beta gene cluster, one of three related gene clusters tandemly linked on chromosome five. The gene clusters demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The beta cluster contains 16 genes and 3 pseudogenes, each encoding 6 extracellular cadherin domains and a cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections. Unlike the alpha and gamma clusters, the transcripts from these genes are made up of only one large exon, not sharing common 3' exons as expected. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins. Their specific functions are unknown but they most likely play a critical role in the establishment and function of specific cell-cell neural connections.

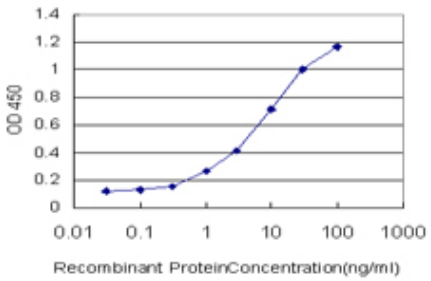
References

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.Protocadherins. Frank M, et al. Curr Opin Cell Biol, 2002 Oct. PMID 12231349.The human and murine protocadherin-beta one-exon gene families show high evolutionary conservation, despite the difference in gene number. Vanhalst K, et al. FEBS Lett, 2001 Apr 20. PMID 11322959.Comparative DNA sequence analysis of mouse and human protocadherin gene clusters. Wu Q, et al. Genome Res, 2001 Mar. PMID 11230163.Phylogenetic analysis of the cadherin superfamily allows identification of six major subfamilies besides several solitary members. Nollet F, et al. J Mol Biol, 2000 Jun 9. PMID 10835267.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.52 KDa) .



Detection limit for recombinant GST tagged PCDHB3 is approximately 0.3ng/ml as a capture antibody.

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