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PCDHGA8 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PCDHGA8.
Catalog # AT3229a

Product Information

Application	WB, E
Primary Accession	Q9Y5G5
Other Accession	NM_032088
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1C11
Calculated MW	101480

Additional Information

Gene ID	9708
Other Names	Protocadherin gamma-A8, PCDH-gamma-A8, PCDHGA8, KIAA0327
Target/Specificity	PCDHGA8 (NP_114477, 357 a.a. ~ 444 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	PCDHGA8 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

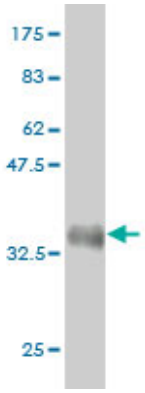
Background

This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes.

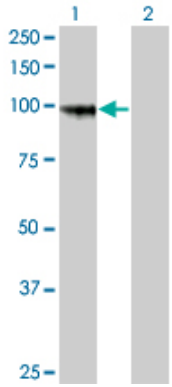
References

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.Cadherin superfamily genes: functions, genomic organization, and neurologic diversity. Yagi T, et al. Genes Dev, 2000 May 15. PMID 10817752.Large exons encoding multiple ectodomains are a characteristic feature of protocadherin genes. Wu Q, et al. Proc Natl Acad Sci U S A, 2000 Mar 28. PMID 10716726.A striking organization of a large family of human neural cadherin-like cell adhesion genes. Wu Q, et al. Cell, 1999 Jun 11. PMID 10380929.

Images

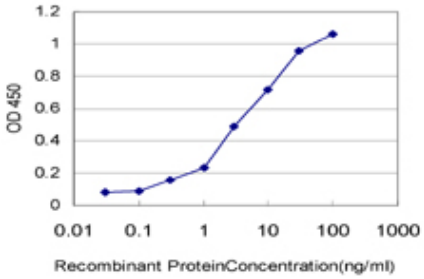


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.42 KDa) .



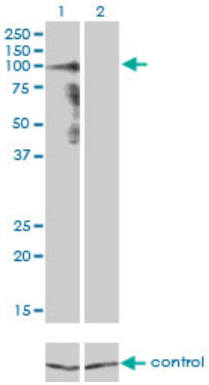
Western Blot analysis of PCDHGA8 expression in transfected 293T cell line by PCDHGA8 monoclonal antibody (M01), clone 1C11.

Lane 1: PCDHGA8 transfected lysate(101.48 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged PCDHGA8 is approximately 0.3ng/ml as a capture antibody.

Western blot analysis of PCDHGA8 over-expressed 293 cell line, cotransfected with PCDHGA8 Validated Chimera RNAi ((Cat # AT3229a)



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