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PCDHGA5 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PCDHGA5.
Catalog # AT3228a

Specification

PCDHGA5 Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	Q9Y5G8
Other Accession	NM_018918
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**100935**

PCDHGA5 Antibody (monoclonal) (M01) - Additional Information

Gene ID 56110

Other Names
Protocadherin gamma-A5, PCDH-gamma-A5, PCDHGA5

Target/Specificity
PCDHGA5 (NP_061741, 205 a.a. ~ 304 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
PCDHGA5 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

PCDHGA5 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

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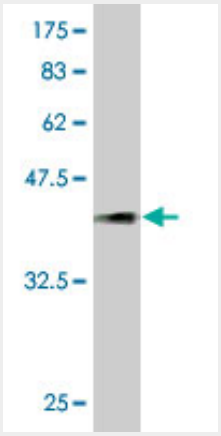
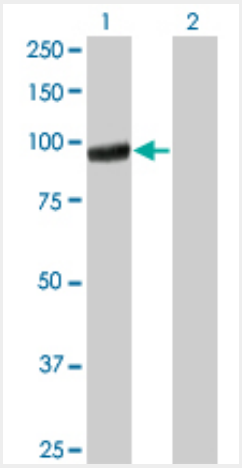
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PCDHGA5 Antibody (monoclonal) (M01) - Images

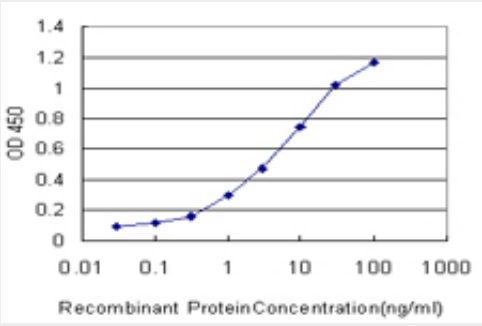


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



Western Blot analysis of PCDHGA5 expression in transfected 293T cell line by PCDHGA5 monoclonal antibody (M01), clone 5H5.

Lane 1: PCDHGA5 transfected lysate(100.935 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged PCDHGA5 is approximately 0.1ng/ml as a capture antibody.

PCDHGA5 Antibody (monoclonal) (M01) - 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.

PCDHGA5 Antibody (monoclonal) (M01) - 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.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.