

# PCDHA10 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PCDHA10.

Catalog # AT3217a

## Product Information

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<b>Application</b>	WB, IHC
<b>Primary Accession</b>	<a href="#">Q9Y5I2</a>
<b>Other Accession</b>	<a href="#">NM_018901</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG1 Kappa
<b>Clone Names</b>	1F6
<b>Calculated MW</b>	102875

## Additional Information

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<b>Gene ID</b>	56139
<b>Other Names</b>	Protocadherin alpha-10, PCDH-alpha-10, PCDHA10, CNRS8
<b>Target/Specificity</b>	PCDHA10 (NP_061724, 182 a.a. ~ 290 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 IHC~~1:100~500
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	PCDHA10 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

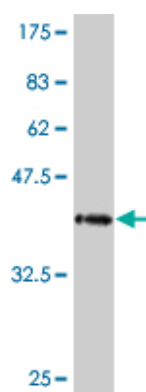
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This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha 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.

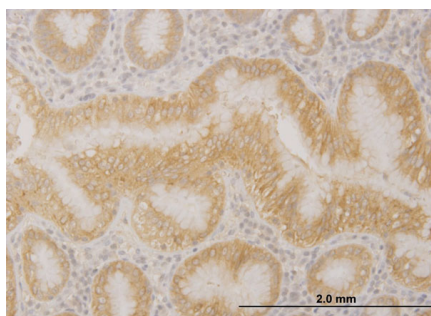
## References

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 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. 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 (37.73 KDa) .



Immunoperoxidase of monoclonal antibody to PCDHA10 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 3 ug/ml]

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