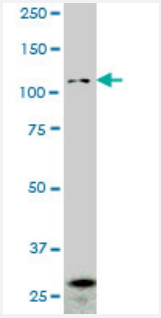
PCDHGA2 monoclonal antibody (M01), clone 2A7

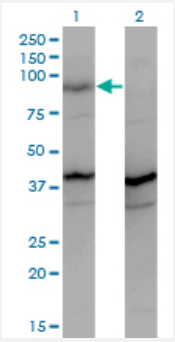
Catalog # H00056113-M01 Size 100 ug

Applications



Western Blot (Cell lysate)

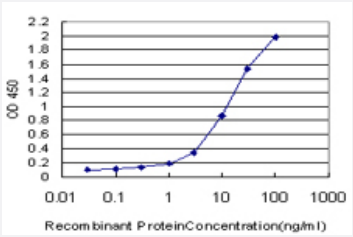
PCDHGA2 monoclonal antibody (M01), clone 2A7. Western Blot analysis of PCDHGA2 expression in Raw 264.7.



Western Blot (Transfected lysate)

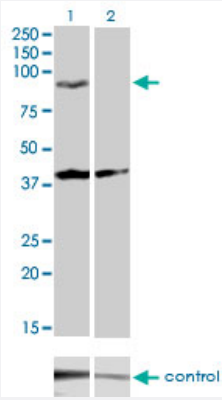
Western Blot analysis of PCDHGA2 expression in transfected 293T cell line by PCDHGA2 monoclonal antibody (M01), clone 2A7.

Lane 1: PCDHGA2 transfected lysate(90.3 KDa).
Lane 2: Non-transfected lysate.



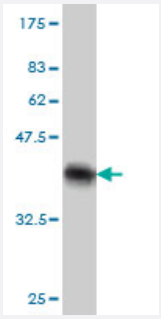
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PCDHGA2 is approximately 0.1ng/ml as a capture antibody.



RNAi Knockdown (Antibody validated)

Western blot analysis of PCDHGA2 over-expressed 293 cell line, cotransfected with PCDHGA2 Validated Chimera RNAi (Cat # H00056113-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with PCDHGA2 monoclonal antibody (M01), clone 2A7 (Cat # H00056113-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (37.73 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PCDHGA2.
Immunogen	PCDHGA2 (NP_061738, 223 a.a. ~ 331 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	SGTSRICVKVLDANDNAPVFTQPEYRISIPENTLVGTRILTVTATDADEGYYAQVVYFLEKSPGETSEVFELKSTSGELTIIKDLDYEDATFHEIDIEAQDGPGLLTRA
Host	Mouse
Reactivity	Human, Mouse
Interspecies Antigen Sequence	Mouse (84); Rat (84)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

  PCDHGA2 monoclonal antibody (M01), clone 2A7. Western Blot analysis of PCDHGA2 expression in Raw 264.7.

  Protocol Download

- Western Blot (Transfected lysate)

  Western Blot analysis of PCDHGA2 expression in transfected 293T cell line by PCDHGA2 monoclonal antibody (M01), clone 2A7.

  Lane 1: PCDHGA2 transfected lysate(90.3 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged PCDHGA2 is approximately 0.1ng/ml as a capture antibody.

  Protocol Download

- ELISA

- RNAi Knockdown (Antibody validated)

  Western blot analysis of PCDHGA2 over-expressed 293 cell line, cotransfected with PCDHGA2 Validated Chimera RNAi (Cat # H00056113-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with PCDHGA2 monoclonal antibody (M01), clone 2A7 (Cat # H00056113-M01). GAPDH (36.1 kDa) used as specificity and loading control.

  Protocol Download

Gene Info — PCDHGA2

Entrez GeneID	56113
GeneBank Accession#	NM_018915
Protein Accession#	NP_061738
Gene Name	PCDHGA2

Gene Alias	PCDH-GAMMA-A2
Gene Description	protocadherin gamma subfamily A, 2
Omim ID	606289
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	-

Disease

- Tobacco Use Disorder