

Datasheet for ABIN2459280

**anti-Protocadherin gamma Subfamily A, 4 (PCDHGA4)  
antibody**[Go to Product page](#)**1** Image

## Overview

Quantity:	100 µL
Target:	Protocadherin gamma Subfamily A, 4 (PCDHGA4)
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), ELISA

## Product Details

Immunogen:	Antibody produced in rabbits immunized with a synthetic peptide corresponding a region of human PCDHGA4.
Purification:	Antibody is purified by peptide affinity chromatography method.

## Target Details

Target:	Protocadherin gamma Subfamily A, 4 (PCDHGA4)
Alternative Name:	PCDHGA4 ( <a href="#">PCDHGA4 Products</a> )
Background:	PCDHGA4 is a single-pass type I membrane protein. It contains 6 cadherin domains. PCDHGA4 is a potential calcium-dependent cell-adhesion protein. It may be involved in the establishment and maintenance of specific neuronal connections in the brain. 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

## Target Details

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.

Molecular Weight:	86 kDa
Gene ID:	56111
NCBI Accession:	<a href="#">NP_114442</a>

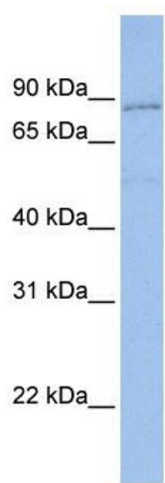
## Application Details

Application Notes:	PCDHGA4 antibody can be used for detection of PCDHGA4 by ELISA at 1:62500. PCDHGA4 antibody can be used for detection of PCDHGA4 by western blot at 1 µg/mL, and HRP conjugated secondary antibody should be diluted 1:50,000 - 100,000.
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Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Add 50 µL of distilled water. Final antibody concentration is 1 mg/mL.
Concentration:	1 mg/mL
Buffer:	Antibody is lyophilized in PBS buffer with 2 % sucrose.
Handling Advice:	As with any antibody avoid repeat freeze-thaw cycles.
Storage:	4 °C/-20 °C
Storage Comment:	For short periods of storage (days) store at 4 °C. For longer periods of storage, store PCDHGA4 antibody at -20 °C.



Western Blotting

Image 1.