

Product datasheet for **TA331060**

PCDHGA4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-PCDHGA4 antibody: synthetic peptide directed towards the N terminal of human PCDHGA4. Synthetic peptide located within the following region: GDPVRSGTARILILVDTNDNAPVFTQPEYHVSRENVPVGTROLLTVKAT
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	86 kDa
Gene Name:	protocadherin gamma subfamily A, 4
Database Link:	NP_114442 Entrez Gene 56111 Human Q9Y5G9



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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 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.

Synonyms:

PCDH-GAMMA-A4

Note:

Rat: 100%; Human: 100%; Mouse: 100%; Dog: 93%; Pig: 93%; Guinea pig: 93%; Horse: 86%; Bovine: 86%; Zebrafish: 86%

Product images:

WB Suggested Anti-PCDHGA4 Antibody Titration: 0.2-1 ug/ml; Positive Control: HeLa cell lysate