



# Anti-PCDHA1 (aa 243-332) polyclonal antibody (DPAB-DC2501)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Immunogen</b>	PCDHA1 (NP_061723, 243 a.a. ~ 332 a.a) partial recombinant protein with GST tag. The sequence is  DQAVYRVHLLETTANGTLVTTLNASDADEGVNGEVVFSFDSGISRDIQEKFKDSSSGEI RLIDKLDYEETKSYEIQVKAVDKGSPPMSN
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol

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<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">PCDHA1</a> protocadherin alpha 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	PCDHA1
<b>Synonyms</b>	PCDHA1; protocadherin alpha 1; PCDH-ALPHA1; protocadherin alpha-1; PCDH-alpha-1; KIAA0345-like 13;
<b>Entrez Gene ID</b>	<a href="#">56147</a>
<b>Protein Refseq</b>	<a href="#">NP_061723</a>
<b>UniProt ID</b>	<a href="#">Q9Y5I3</a>
<b>Chromosome Location</b>	5q31
<b>Function</b>	calcium ion binding;

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