



## Anti-PCDHA3 (aa 180-287) polyclonal antibody (DPAB-DC2500)

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

### PRODUCT INFORMATION

#### Antigen Description

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>	PCDHA3 (NP_061729, 180 a.a. ~ 287 a.a) partial recombinant protein with GST tag. The sequence is LDVKRNDEEIKSLGLVLKKNLNREDTPKHYLLITAIDGGKPELTGTTQLKITVLDVNDNA PAFERTIYKVRLLLENAPNGTLVVTVNATDLDEGVNKKDIAYSFNTDMSA
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<b>Source/Host</b>	Mouse
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<b>Species Reactivity</b>	Human
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<b>Conjugate</b>	Unconjugated
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<b>Applications</b>	WB (Recombinant protein), ELISA,
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<b>Size</b>	50 µl
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<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.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">PCDHA3 protocadherin alpha 3 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	PCDHA3
<b>Synonyms</b>	PCDHA3; protocadherin alpha 3; PCDH-ALPHA3; protocadherin alpha-3; PCDH-alpha-3; KIAA0345-like 11;
<b>Entrez Gene ID</b>	<a href="#">56145</a>
<b>Protein Refseq</b>	<a href="#">NP_061729</a>
<b>UniProt ID</b>	<a href="#">Q9Y5H8</a>
<b>Chromosome Location</b>	5q31
<b>Function</b>	calcium ion binding;