



# Anti-PCDHGA2 (aa 223-331) polyclonal antibody (DPAB-DC2486)

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 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.

### Immunogen

PCDHGA2 (NP\_061738, 223 a.a. ~ 331 a.a) partial recombinant protein with GST tag.  
The sequence is  
SGTSRICVKVLDANDNAPVFTQPEYRISIPENTLVGTRILTVTATDADEGYAQQVVFLE  
KSPGETSEVFELKSTSGELTIKLDYEDATFHEIDIEAQDGPGLLTRA

### Source/Host

Mouse

### Species Reactivity

Human

### Conjugate

Unconjugated

### Applications

WB (Recombinant protein), ELISA,

### Size

50 µl

### Buffer

50 % glycerol

<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="#">PCDHGA2 protocadherin gamma subfamily A, 2 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	PCDHGA2
<b>Synonyms</b>	PCDHGA2; protocadherin gamma subfamily A, 2; PCDH-GAMMA-A2; protocadherin gamma-A2;
<b>Entrez Gene ID</b>	<a href="#">56113</a>
<b>Protein Refseq</b>	<a href="#">NP_061738</a>
<b>UniProt ID</b>	<a href="#">Q9Y5H1</a>
<b>Chromosome Location</b>	5q31
<b>Function</b>	calcium ion binding;