



Anti-PCDHGA7 (aa 347-441) polyclonal antibody (DPAB-DC2483)

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

PCDHGA7 (NP_061743, 347 a.a. ~ 441 a.a) partial recombinant protein with GST tag.
The sequence is
VTMTSLSSSIPEDTPLGTVIALFYQLQDRDSGKNGEVTCTIPENLPFKLEKSIDNYYRLVT
TKNLDRETLNITLKATDGGTPPLSRETHIFMQ

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

ELISA,

Size

50 µl

Buffer

50 % glycerol

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

GENE INFORMATION

Gene Name	PCDHGA7 protocadherin gamma subfamily A, 7 [Homo sapiens (human)]
Official Symbol	PCDHGA7
Synonyms	PCDHGA7; protocadherin gamma subfamily A, 7; PCDH-GAMMA-A7; protocadherin gamma-A7;
Entrez Gene ID	56108
Protein Refseq	NP_061743
UniProt ID	Q9Y5G6
Chromosome Location	5q31
Function	calcium ion binding;