



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

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.

Immunogen

PCDHA1 (NP_061723, 243 a.a. ~ 332 a.a) partial recombinant protein with GST tag. The sequence is
DQAVYRVHLLTANGTLVTTLNASDADEGVNGEVVFSFDSGISRDIQEKFKVDSSSGEI
RLIDKLDYEETKSYEIQVKAVDKGSPPMNS

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), 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	PCDHA1 protocadherin alpha 1 [Homo sapiens (human)]
Official Symbol	PCDHA1
Synonyms	PCDHA1; protocadherin alpha 1; PCDH-ALPHA1; protocadherin alpha-1; PCDH-alpha-1; KIAA0345-like 13;
Entrez Gene ID	56147
Protein Refseq	NP_061723
UniProt ID	Q9Y5I3
Chromosome Location	5q31
Function	calcium ion binding;