10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PCDHB5 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP13230c

Specification

PCDHB5 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9Y5E4

PCDHB5 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 26167

Other Names
Protocadherin beta-5, PCDH-beta-5, PCDHB5

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13230c was selected from the Center region of PCDHB5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PCDHB5 Antibody (Center) Blocking Peptide - Protein Information

Name PCDHB5

Function
Potential calcium-dependent cell-adhesion protein. May be involved in the establishment and maintenance of specific neuronal connections in the brain.

Cellular Location
Cell membrane; Single-pass type I membrane protein

PCDHB5 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

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PCDHB5 Antibody (Center) Blocking Peptide - Images

PCDHB5 Antibody (Center) Blocking Peptide - Background

This gene is a member of the protocadherin beta genecluster, one of three related gene clusters tandemly linked onchromosome five. The gene clusters demonstrate an unusual genomicorganization similar to that of B-cell and T-cell receptor geneclusters. The beta cluster contains 16 genes and 3 pseudogenes,each encoding 6 extracellular cadherin domains and a cytoplasmictail that deviates from others in the cadherin superfamily. Theextracellular domains interact in a homophilic manner to specifydifferential cell-cell connections. Unlike the alpha and gammaclusters, the transcripts from these genes are made up of only onelarge exon, not sharing common 3' exons as expected. These neuralcadherin-like cell adhesion proteins are integral plasma membraneproteins. Their specific functions are unknown but they most likelyplay a critical role in the establishment and function of specificcell-cell neural connections.

PCDHB5 Antibody (Center) Blocking Peptide - References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Frank, M., et al. Curr. Opin. Cell Biol. 14(5):557-562(2002)Vanhalst, K., et al. FEBS Lett. 495 (1-2), 120-125 (2001) :Wu, Q., et al. Genome Res. 11(3):389-404(2001)Nollet, F., et al. J. Mol. Biol. 299(3):551-572(2000)