

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](#)

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 on chromosome five. The gene clusters demonstrate an unusual genomic organization 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 cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections. Unlike the alpha and gamma clusters, the transcripts from these genes are made up of only one large exon, not sharing common 3' exons as expected. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins. Their specific functions are unknown but they most likely play a critical role in the establishment and function of specific cell-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)