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CDH12 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP1473b

Specification

CDH12 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P55289

CDH12 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 1010

Other Names
Cadherin-12, Brain cadherin, BR-cadherin, Neural type cadherin 2, N-cadherin 2, CDH12

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1473b was selected from the C-term region of human CDH12. 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.

CDH12 Antibody (C-term) Blocking Peptide - Protein Information

Name CDH12

Function
Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types.

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

Tissue Location
Brain.

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CDH12 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CDH12 Antibody (C-term) Blocking Peptide - Images

CDH12 Antibody (C-term) Blocking Peptide - Background

CDH12 is a type II classical cadherin from the cadherin superfamily of integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. This particular cadherin appears to be expressed specifically in the brain and its temporal pattern of expression would be consistent with a role during a critical period of neuronal development, perhaps specifically during synaptogenesis.

CDH12 Antibody (C-term) Blocking Peptide - References

Shimoyama,Y., Biochem. J. 349 (PT 1), 159-167 (2000)Chalmers,I.J., Genomics 57 (1), 160-163 (1999)Kremmidiotis,G., Genomics 49 (3), 467-471 (1998)Selig,S., Proc. Natl. Acad. Sci. U.S.A. 94 (6), 2398-2403 (1997)