

**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](/product/products/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

**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)

**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.

**CDH12 Antibody (C-term) Blocking Peptide  
- Protocols**

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

- [Blocking Peptides](#)