

Recombinant Human CDH12

Cat. No. CDH12-26803TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human CDH12, amino acids 372-470 with a N terminal proprietary tag; Predicted MWt 36.52 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	99 amino acids
Description	<p>This gene encodes 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.</p>
Molecular Weight	36.520kDa inclusive of tags
Tissue specificity	Brain.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	KISVLDVDEPPVFSKPLYTMEVYEDTPVGTIIGAVTAQDLVDGSSAVRYFIDWKS DGD SYFTIDGNEG TIATNELL DRESTAQYNFSIIASKVSNPLLT
Sequence Similarities	Contains 5 cadherin domains.

GENE INFORMATION

Gene Name	CDH12 cadherin 12, type 2 (N-cadherin 2) [Homo sapiens]
Official Symbol	CDH12
Synonyms	CDH12; cadherin 12, type 2 (N-cadherin 2); cadherin-12; Br cadherin; CDHB;
Gene ID	1010
mRNA Refseq	NM_004061
Protein Refseq	NP_004052
MIM	600562
Uniprot ID	P55289
Chromosome	5p14.3

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Location**Pathway**

Adherens junctions interactions, organism-specific biosystem; Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-cell junction organization, organism-specific biosystem;

Function

calcium ion binding;

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