

Datasheet for ABIN7317950

Cadherin 4 Protein (CDH4) (His tag)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Cadherin 4 (CDH4)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Cadherin 4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human R-Cadherin/CDH4 Protein (His Tag)(Active)
Sequence:	Met 1-Ala 734
Characteristics:	A DNA sequence encoding the extracellular domain of human CAD4 (NP_001785.2) (Met 1-Ala 734) was expressed with a fused polyhistidine tag at the C-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesion of C6 Rat brain glial cells. Immobilized CAD4 (0.8 µg/ml, 100 µl/well) will mediate >20% C6 cell adhesion.

Target Details

Target:	Cadherin 4 (CDH4)
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Target Details

Alternative Name:	R-Cadherin/CDH4 (CDH4 Products)
Background:	<p>Background: The cadherin superfamily is a large family that engage in both homo- and heterotypic, calcium-dependent, cell-cell adhesion events, and can be divided into at least four subfamilies based on the extracellular (EC) regions and cytoplasmic domains, that is: classical cadherins, desmosomal cadherins, protocadherins, and cadherin-like molecules. Human cadherin 4, type 1, R-cadherin (retinal), also known as CDH4, CAD4 and RCAD, is a classical cadherin from the cadherin superfamily. It is a calcium-dependent adhesion molecule and a type I transmembrane glycoprotein composed of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. CDH4 is thought to play an important role during brain segmentation and neuronal outgrowth, and also exerts critical actions in kidney and muscle development. CDH4 is expressed in vascular smooth muscle, pancreatic β-cells, thyroid follicular cells, sensory neurons of the dorsal root ganglia, and, possibly, astrocytes and endothelium of the retina. As a classic cadherin, CDH4 forms both homodimers and heterodimers with N-cadherin. The extracellular region of human CDH4 is 96% aa identical to that of mouse CDH4.</p> <p>Synonym: CAD4;R-CAD;RCAD</p>
Molecular Weight:	80 kDa
NCBI Accession:	NP_001785
Pathways:	Cell-Cell Junction Organization, Regulation of Cell Size

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>