Datasheet for ABIN7317622

CADM3 Protein (His tag)

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Overview

Quantity:	100 µg
Target:	CADM3
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CADM3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CADM3 Protein (His Tag)(Active)
Sequence:	Met 1-His 330
Characteristics:	A DNA sequence encoding the human CADM3 isoform 2 (short isoform) (NP_001120645.1) extracellular domain (Met 1-His 330) was expressed, with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein 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. Human CADM3 immobilized (0.8 µg/ml, 100 µl/well) will mediate >30% C6 cell adhesion.

Target Details

Target:	CADM3

Target Details

Alternative Name:	CADM3 (CADM3 Products)
Background:	Background: Cell Adhesion Molecules (CAMs) are proteins located on the cell surface involved with the binding with other cells or with the extracellular matrix (ECM) in the process called cell adhesion. These proteins are typically transmembrane receptors and are composed of three domains: an intracellular domain that interacts with the cytoskeleton, a transmembrane domain, and an extracellular domain that interacts either with other CAMs of the same kind (homophilic binding) or with other CAMs or the extracellular matrix (heterophilic binding). Cell adhesion molecule 3, also known as Immunoglobulin superfamily member 4B, CADM3, and NECL1, is a neural tissue-specific immunoglobulin-like cell-cell adhesion molecule which has Ca(2+)-independent homo- or heterophilic cell-cell adhesion activity and plays an important role in the formation of synapses, axon bundles and myelinated axons. Isoform 1 of CADM3 is expressed mainly in adult and fetal brain. Isoform 2 of CADM3 is highly expressed in adult brain and weakly expressed in placenta. In brain, Isoform 2 is highly expressed in cerebellum. CADM3 is involved in the cell-cell adhesion. It has both calcium-independent homophilic cell-cell adhesion activity and calcium-independent heterophilic cell-cell adhesion activity with IGSF4, PVRL1 and PVRL3. The interaction with EPB41L1 may regulate structure or function of cell-cell junctions. CADM3 may act as a tumor suppressor in glioma and loss of it in glioma may be caused by histone deacetylation. Synonym: Cell Adhesion Molecule 3, Brain Immunoglobulin Receptor, Immunoglobulin Superfamily Member 4B, IgSF4B, Nectin-Like Protein 1, NECL-1, Synaptic Cell Adhesion Molecule 3, SynCAM3, TSLC1-Like Protein 1, TSLL1, CADM3, IGSF4B, NECL1, SYNCAM3, TSLL1
Molecular Weight:	35.1 kDa
NCBI Accession:	NP_001120645
Pathways:	Cell-Cell Junction Organization

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4

Handling

Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	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.

