

CADM3 Antibody

Catalog # ASC11856

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q8N126
Other Accession	NP_067012 , 11056046
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	43300
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CADM3 antibody can be used for detection of CADM3 by Western blot at 1 - 2 μ g/ml. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	57863
Other Names	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
Target/Specificity	CADM3; CADM3 antibody is human, mouse and rat reactive. At least three isoforms are known to exist; this antibody will only detect the two longest isoforms. CADM3 antibody is predicted to not cross-react with other members of the CADM protein family.
Reconstitution & Storage	CADM3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	CADM3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CADM3
Synonyms	IGSF4B, NECL1, SYNCAM3, TSLL1
Function	Involved in cell-cell adhesion. Has both calcium-independent homophilic cell-cell adhesion activity and calcium-independent heterophilic cell-cell adhesion activity with IGSF4, NECTIN1 and NECTIN3. Interaction with EPB41L1 may regulate structure or function of cell-cell junctions (By

similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell junction

Tissue Location

Isoform 1 is expressed mainly in adult and fetal brain. Isoform 2 is highly expressed in adult brain and weakly expressed in placenta. In brain, Isoform 2 is highly expressed in cerebellum.

Background

Cell adhesion molecule 3 (CADM3) is a member of a family of immunoglobulin-like, calcium-independent cell-cell adhesion molecules (1,2). CADM3 localizes to non-junctional contact sites of presynaptic nerve terminals, axons and glia cell processes and is thought to play an important role in the formation of synapses, axon bundles and myelinated axons (3). Recently, CADM3 has been shown to suppress the growth and tumorigenic ability of colon cancer cells, indicating that it can act as a tumor suppressor (4).

References

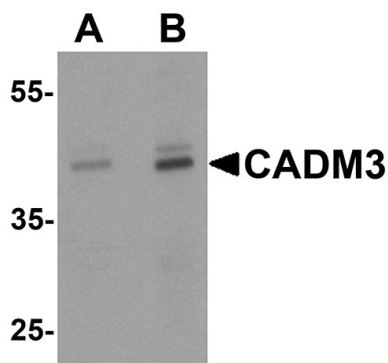
Fukuhara H, Kuramochi M, Nobukuni T, et al. Isolation of the TSLL1 and TSLL2 genes, members of the tumor suppressor TSLC1 gene family encoding transmembrane proteins. *Oncogene* 2001; 20:5401-7.

Takai Y, Mioshi J, Ikeda W, et al. Nectins and nectin-like molecules: roles in contact inhibition of cell movement and proliferation. *Nat. Rev. Mol. Cell Biol.* 2008; 9:603-15.

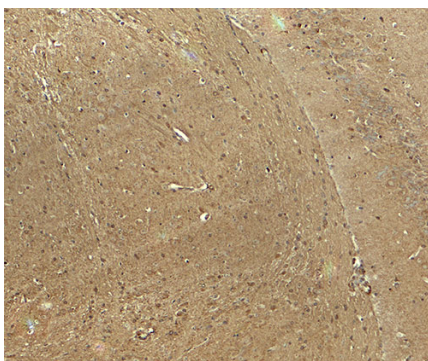
Kakunaga S, Ikeda W, Itoh S, et al. Nectin-like molecule-1/TSLL1/SynCAM3: a neural tissue-specific immunoglobulin-like cell-cell adhesion molecule localizing at non-junctional contact sites of presynaptic nerve terminals, axons and glia cell processes. *J. Cell Sci.* 2005; 118:1267-77.

Raveh S, Gavert N, Spiegel I, et al. The cell adhesion nectin-like (Nec1) molecules 1 and 4 suppress the growth and tumorigenic ability of colon cancer cells. *J. Biol. Biochem.* 2009; 108:326-36.

Images

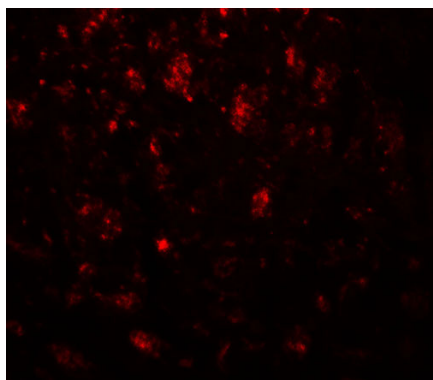


Western blot analysis of CADM3 in mouse brain tissue lysate with CADM3 antibody at (A) 1 and (B) 2 μ g/ml.



Immunohistochemistry of CADM3 in mouse brain tissue with CADM3 antibody at 5 μ g/ml.

Immunofluorescence of CADM3 in mouse brain tissue



with CADM3 antibody at 20 $\mu\text{g/ml}$.

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