

## Rabbit anti-Human, Mouse CADM1 Polyclonal Antibody | anti-CADM1 antibody

CADM1 Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                                 |
|-----------|--------|--------------|--------------------------------------------------------------|
| AAA324224 | Rabbit | Human, Mouse | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

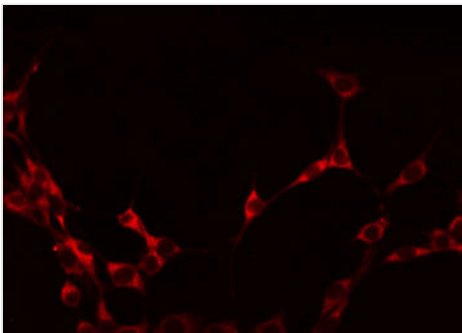
### PRODUCT SYNONYMS

CADM1; Polyclonal Antibody; CADM1 Antibody; BL2; Cadm1; CADM1\_HUMAN; Cell adhesion molecule 1; DKFZp686F1789; IGSF4; IGSF4A; Immunoglobulin superfamily member 4; MGC149785; MGC51880; NECL-2; NECL2; Nectin like 2; Nectin-like protein 2; RA175; SgIGSF; Spermatogenic immunoglobulin superfamily; ST17; sTSLC 1; Synaptic cell adhesion molecule; SynCAM; SynCAM1; TSLC-1; TSLC1; Tumor suppressor in lung cancer 1; anti-CADM1 antibody

### PRODUCT SPECIFICATIONS

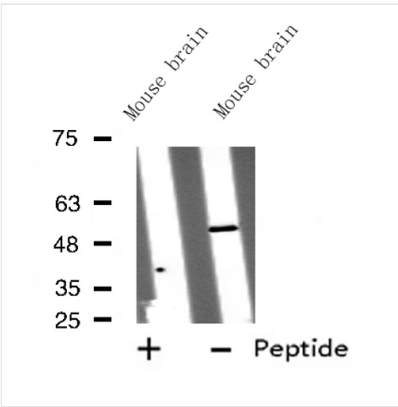
|                                                 |                                                                                                                                                            |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                     |
| Reactivity                                      | Human, Mouse                                                                                                                                               |
| Clonality                                       | Polyclonal                                                                                                                                                 |
| Isotype                                         | IgG                                                                                                                                                        |
| Specificity                                     | CADM1 antibody detects endogenous levels of total CADM1                                                                                                    |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                              |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                              |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                     |
| Sequence Length                                 | 414                                                                                                                                                        |
| Applicable Applications for anti-CADM1 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                                               |
| Immunogen                                       | A synthesized peptide                                                                                                                                      |
| Subcellular Location                            | Cell Membrane. Associates with perinuclear and plasma membranes in vivo. Localized to the basolateral plasma membrane of epithelial cells in gall bladder. |
| Conjugation                                     | Unconjugated                                                                                                                                               |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                          |

IMAGES



IF (Immunofluorescence)

AAA324224 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of CADM1 expression in Mouse brain lysate

ADDITIONAL INFORMATION

Related Product Information for anti-CADM1 antibody

Function: Mediates homophilic cell-cell adhesion in a Ca<sup>2+</sup>-independent manner. Also mediates heterophilic cell-cell adhesion with CADM3 and NECTIN3 in a Ca<sup>2+</sup>-independent manner. Acts as a tumor suppressor in non-small-cell lung cancer (NSCLC) cells. Interaction with CRTAM promotes natural killer (NK) cell cytotoxicity and interferon-gamma (IFN-gamma) secretion by CD8<sup>+</sup> cells in vitro as well as NK cell-mediated rejection of tumors expressing CADM3 in vivo. May contribute to the less invasive phenotypes of lepidic growth tumor cells. In mast cells, may mediate attachment to and promote communication with nerves. CADM1, together with MITF, is essential for development and survival of mast cells in vivo. Acts as a synaptic cell adhesion molecule and plays a role in the formation of dendritic spines and in synapse assembly (By similarity). May be involved in neuronal migration, axon growth, pathfinding, and fasciculation on the axons of differentiating neurons. May play diverse roles in the spermatogenesis including in the adhesion of spermatocytes and spermatids to Sertoli cells and for their normal differentiation into mature spermatozoa.

Subunit Structure: Homodimer. Interacts with FARP1 (By similarity). Interacts with CRTAM. Interacts (via C-terminus) with EPB41L3/DAL1. The interaction with EPB41L3/DAL1 may act to anchor CADM1 to the actin cytoskeleton. Interacts via its C-terminus with the PDZ domain of MPP2, MPP3 and MPP6.

Post-translational Modifications: Glycosylation at Asn-67 and Asn-101 promotes adhesive binding and synapse induction.

Similarity: The cytoplasmic domain appears to play a critical role in proapoptosis and tumor suppressor activity in NSCLC. Belongs to the nectin family.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------|
| NCBI GI #                        | 148664211                                                                               |
| NCBI GeneID                      | 23705                                                                                   |
| NCBI Accession #                 | NP_001091987.1                                                                          |
| NCBI GenBank Nucleotide #        | NM_001098517.1                                                                          |
| UniProt Accession #              | Q9BY67; Q86WB8; Q8N2F4; A4FVB5; F5H0J4; H0YGA7; H1ZZV9; H1ZZW1; H1ZZW2; X5D2C8          |
| Molecular Weight                 | Observed: 49 kD<br>Predicted: 49 kDa                                                    |
| NCBI Official Full Name          | cell adhesion molecule 1 isoform E                                                      |
| NCBI Official Synonym Full Names | cell adhesion molecule 1                                                                |
| NCBI Official Symbol             | CADM1                                                                                   |
| NCBI Official Synonym Symbols    | BL2; ST17; IGSF4; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sgIGSF; sTSLC-1; synCAM1 |
| NCBI Protein Information         | cell adhesion molecule 1                                                                |

|                            |                                       |
|----------------------------|---------------------------------------|
| UniProt Protein Name       | Cell adhesion molecule 1              |
| UniProt Gene Name          | CADM1                                 |
| UniProt Synonym Gene Names | IgSF4; NECL-2; SgIgSF; SynCAM; TSLC-1 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cadm1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324224>