# CADM1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CADM1, Polyclonal Antibody |
| **Full Product Name** | CADM1 (Cell Adhesion Molecule 1, Immunoglobulin Superfamily Member 4, Igsf4, Nectin-Like Protein 2, Necl-2, Spermatogenic Immunoglobulin Superfamily, Sgigsf, Synaptic Cell Adhesion Molecule, Syncam, Tumor Suppressor in Lung Cancer 1, Tslc-1, Igsf4, Igsf4A |
| **Product Gene Name** | anti-CADM1 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC). |
| **Purity/Purification** | Purified by affinity chromatography. |
| **Specificity** | Recognizes humam CADM1. Species Crossreactivity: Mouse and rat. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. |
| **Molecular Weight** | 46 |
| **OMIM** | 605686 |
| **3D Structure** | ModBase 3D Structure for Q9BY67 |
| **Immunogen** | Synthetic linear peptide corresponding to human CADM1. |
| **Conjugate** | FITC |
| **Positive Control** | PC3 cell lysate |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-CADM1 antibody** | Antibodies; Membrane Proteins |
| **Applications Tested/Suitable for anti-CADM1 antibody** | Immunocytochemistry (ICC), Western Blot (WB) |
| **Application Notes for anti-CADM1 antibody** | ICC: 1:500<br>WB: 2ug/ml<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-CADM1 antibody** | MBS6269443 is an antibody targeting CADM1. Also known as CADM1 (Cell Adhesion Molecule 1, Immunoglobulin Superfamily Member 4, Igsf4, Nectin-Like Protein 2, Necl-2, Spermatogenic Immunoglobulin Superfamily, Sgigsf, Synaptic Cell Adhesion Molecule, Syncam, Tumor Suppressor in Lung Cancer 1, Tslc-1, Igsf4, Igsf4A. Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **Product References and Citations for anti-CADM1 antibody** | 1. Takayanagi, Y., et al. (2010). Biochem Biophys Res Commun. 396(3):703-708. 2. Sakurai-Yageta, M., et al. (2009). Biochem Biophys Res Commun. 390(3):977-982. 3. Zhiling, Y., et al. (2008). Biochem Biophys Res Commun. 377(3):926-929. 4. Nowacki, S., et al. (2008). Oncogene. 27(23): 3329-3338. |

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| **Other Notes** | Small volumes of anti-CADM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CADM1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 148664211 |
| **NCBI GeneID** | 23705 |
| **NCBI Accession #** | NP_001091987 |
| **UniProt Primary Accession #** | Q9BY67 |
| **UniProt Related Accession #** | Q9BY67 |
| **GenBank Nucleotide #** | NM_001098517 |
| **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 |
| **UniProt Protein Name** | Cell adhesion molecule 1 |
| **UniProt Synonym Protein Names** | Immunoglobulin superfamily member 4; IgSF4; Nectin-like protein 2; NECL-2; Spermatogenic immunoglobulin superfamily; SgIgSF; Synaptic cell adhesion molecule; SynCAM; Tumor suppressor in lung cancer 1 |
| **Protein Family** | Cell adhesion molecule |
| **UniProt Gene Name** | CADM1 |
| **UniProt Synonym Gene Names** | IGSF4; IGSF4A; NECL2; SYNCAM; TSLC1; IgSF4; NECL-2; SgIgSF; SynCAM; TSLC-1 |
| **UniProt Entry Name** | CADM1_HUMAN |
| **NCBI Protein Information** | cell adhesion molecule 1 |

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| **UniProt Comments for CADM1** | CADM1: a single-pass type I membrane protein that ediates homophilic cell-cell adhesion, and heterophilic cell-cell adhesion with CADM3 and PVRL3 in a Ca(2+)-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+ 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. May act as a synaptic cell adhesion molecule that drives synapse assembly. 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. Belongs to the nectin family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Membrane protein, integral; Vesicle; Apoptosis; Tumor suppressor; Cell adhesion<br><br>Chromosomal Location of Human Ortholog: 11q23.2<br><br>Cellular Component: synaptic vesicle; basolateral plasma membrane; axon; dendrite; integral to membrane; plasma membrane; intercellular junction<br><br>Molecular Function: protein binding; protein homodimerization activity; cell adhesion molecule binding; receptor binding; PDZ domain binding<br><br>Biological Process: unidimensional cell growth; intercellular junction assembly and maintenance; apoptosis; activated T cell proliferation; cell recognition; susceptibility to natural killer cell mediated cytotoxicity; positive regulation of natural killer cell mediated cytotoxicity; liver development; calcium-independent cell-cell adhesion; heterophilic cell adhesion; synaptogenesis; detection of stimulus; spermatogenesis; brain development; homophilic cell adhesion; cell differentiation; T cell mediated cytotoxicity; positive regulation of cytokine secretion |
| **Research Articles on CADM1** | **1.** Circular RNAs hsa_circ_0032462, hsa_circ_0028173, hsa_circ_0005909 are predicted to promote CADM1 expression by functioning as miRNAs sponge in human osteosarcoma |
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