

Recombinant Human CADM1 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. CADM1-428H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CADM1 MS Standard C13 and N15-labeled recombinant protein (NP_055148) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Mediates homophilic cell-cell adhesion in a Ca²⁺-independent manner. Also mediates heterophilic cell-cell adhesion with CADM3 and NECTIN3 in a Ca²⁺-independent manner. 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 CADM1 in vivo. 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. By interacting with CRTAM and thus promoting the adhesion between CD8⁺ T-cells and CD8⁺ dendritic cells, regulates the retention of activated CD8⁺ T-cell within the draining lymph node. Required for the intestinal retention of intraepithelial CD4⁺ CD8⁺ T-cells and, to a lesser extent, intraepithelial and lamina propria CD8⁺ T-cells and CD4⁺ T-cells. Interaction with CRTAM promotes the adhesion to gut-associated CD103⁺ dendritic cells, which may facilitate the expression of gut-homing and adhesion molecules on T-cells and the conversion of CD4⁺ T-cells into CD4⁺ CD8⁺ T-cells. Acts as a synaptic cell adhesion molecule and plays a role in the formation of dendritic spines and in synapse assembly. May be involved in neuronal migration, axon growth,

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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. Acts as a tumor suppressor in non-small-cell lung cancer (NSCLC) cells. May contribute to the less invasive phenotypes of lepidic growth tumor cells).

Molecular Mass	48.3 kDa
AA Sequence	MASVVLPSGSQCAAAAAAAPPGLRLRLLLLLFSAAALIPTGDGQNLFTKDVTVIEGE VATISCQVNKSDDSVIQLLNPNRQTIYFRDFRPLKDSRFQLLNFSSELKVSLTNVSIS DEGRYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCTAMASKPAT TIRWFKGNTELKGKSEVEEWSDMYTVTSQMLKVHKEDDGVVICQVEHPAVTGNL QTQRYLEVQYKPQVHIQMTYPLQGLTREGDALELTCEAIGKPQPMVMTWVRVDDE MPQHAVLSGPNLFINNLNKTDNGTYRCEASNIVGKAHSDYMLYVYDPPTTIPPTTT TTTTTTTTTTILTITDSRAGEEGSIRAVDHAVIDGGVAVVVFAMLCLLIILGRYFARHKG TYFTHEAKGADDAADADTAIINAEGGQNNSEEKKEYFITRTRPLEQKLISEEDLAANDI LDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

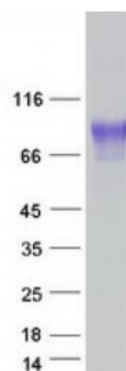
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Gene Name	CADM1 cell adhesion molecule 1 [Homo sapiens (human)]
Official Symbol	CADM1
Synonyms	CADM1; cell adhesion molecule 1; IGSF4, immunoglobulin superfamily, member 4, TSLC1, tumor suppressor in lung cancer 1; BL2; IGSF4A; Necl 2; NECL2; nectin like 2; RA175; ST17; SYNCAM; SYNCAM1; TSLC-1; nectin-like 2; nectin-like protein 2; truncated CADM1 protein; TSLC1/Nectin-like 2/IGSF4; synaptic cell adhesion molecule; tumor suppressor in lung cancer 1; immunoglobulin superfamily member 4; immunoglobulin superfamily, member 4; spermatogenic immunoglobulin superfamily; immunoglobulin superfamily, member 4D variant 2; IGSF4; TSLC1; Necl-2; sgIGSF; sTSLC-1; synCAM1; MGC51880; MGC149785; DKFZp686F1789;
Gene ID	23705
mRNA Refseq	NM_014333
Protein Refseq	NP_055148
MIM	605686
UniProt ID	Q9BY67

SDS-PAGE



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