PRODUCT INFORMATION

Target	CADM1
Synonyms	BL2;IGSF4;IGSF4A;Necl-2;NECL2;RA175;sgIGSF;ST17;sTSLC-1;SYNCAM;synCAM1;TSLC1
Description	Recombinant Human CADM1 Protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	Q9BY67
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	CADM1(Gln45-His374) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 37.9 kDa after removal of the signal peptide. The apparent molecular mass of CADM1-His is approximately 55-70 kDa due to glycosylation.
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	Mediates homophilic cell-cell adhesion in a Ca(2)-independent manner. Also mediates heterophilic cell-cell adhesion with CADM3 and NECTIN3 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. 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.[UniProtKB/Swiss-Prot Function]
Usage	Research use only
Conjugate	Unconjugated

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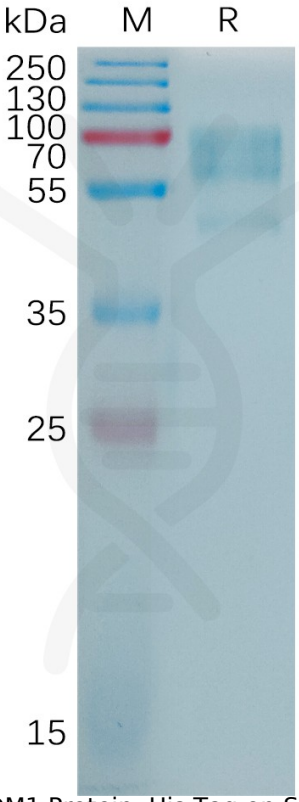


Figure 1. Human CADM1 Protein, His Tag on SDS-PAGE under reducing condition.

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