

Rabbit Anti-Mouse Cell Adhesion Molecule 3 Monoclonal Antibody

Cat. No. CAB11488RM **Lot. No.** (See product label)

SPECIFICATION

Product Overview Rabbit monoclonal antibody to mouse cell adhesion molecule 3.

Species Mouse

Source Rabbit

Antigen Description

Mouse cell adhesion molecule 3, also known as Immunoglobulin superfamily member 4B, CADM3, and NECL1, is a member of the nectin family. It contains two Ig-like C2-type (immunoglobulin-like) domains and one Ig-like V-type (immunoglobulin-like) domain. Isoform 1 of CADM3 is expressed mainly in adult and fetal brain. Isoform 2 of CADM3 is highly expressed in adult brain and weakly expressed in placenta. In brain, Isoform 2 is highly expressed in cerebellum. CADM3 is involved in the cell-cell adhesion. It has both calcium-independent homophilic cell-cell adhesion activity and calcium-independent heterophilic cell-cell adhesion activity with IGSF4, PVRL1 and PVRL3. The interaction with EPB41L1 may regulate structure or function of cell-cell junctions. Cell Adhesion Molecules (CAMs) are proteins located on the cell surface involved with the binding with other cells or with the extracellular matrix (ECM) in the process called cell adhesion. These proteins are typically transmembrane receptors and are composed of three domains: an intracellular domain that interacts with the cytoskeleton, a transmembrane domain, and an extracellular domain that interacts either with other CAMs of the same kind (homophilic binding) or with other CAMs or the extracellular matrix (heterophilic binding).

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Specificity	Mouse CADM3 / NECL1 / IGSF4B. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant Mouse CADM3 / NECL1 / IGSF4B Protein
Isotype	Rabbit IgG
Clone	025
Applications	Western Blot; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect Mouse CADM3 in WB.Using a DAB detection system, the detection limit for Mouse CADM3 is approximately 2 ng/lane under non-reducing conditions and 1 ng/lane under reducing conditions.Direct ELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect Mouse CADM3.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse CADM3 / NECL1 / IGSF4B.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

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Gene Name	Cadm3 cell adhesion molecule 3 [Mus musculus]
Official Symbol	Cadm3
Synonyms	CADM3; cell adhesion molecule 3; nectin-like 1; TSLC1-like protein 1; nectin-like protein 1; synaptic cell adhesion molecule 3; immunoglobulin superfamily member 4B; immunoglobulin superfamily, member 4B; BlgR; Necl1; Tsl11; Igsf4b; Necl-1; SynCAM3;
Gene ID	94332
mRNA Refseq	NM_053199
Protein Refseq	NP_444429
Pathway	Adherens junctions interactions, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-cell junction organization, organism-specific biosystem; Nectin/Nectrans heterodimerization, organism-specific biosystem;
Function	protein homodimerization activity;