

Datasheet for ABIN3042543
anti-CADM1 antibody (N-Term)



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1 Image

Overview

Quantity:	100 µg
Target:	CADM1
Binding Specificity:	AA 73-92, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CADM1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-SynCAM/CADM1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human SynCAM, identical to the related mouse and rat sequences.
Sequence:	VIQLLNPNRQ TIYFRDFRPL
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-SynCAM/CADM1 Antibody (ABIN3042543). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: CADM1

Alternative Name: CADM1 ([CADM1 Products](#))

Background: Synonyms: 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, CADM1, IGSF4, IGSF4A, NECL2, SYNCAM, TSLC1,

Tissue Specificity: Expressed in pancreatic islets and in brain, where it has been seen in cerebral cortex, hippocampus, basal ganglia, habenula and thalamus. Expressed in the small cell lung carcinoma cell line SCC-9. No expression in skeletal muscle. .

Background: Cell adhesion molecule 1 is a protein that, in humans, is encoded by the CADM1 gene. This gene is also known as IGSF4, SYNCAM or TSLC1, and it is mapped to 11q23.3. CADM1 functions as a homophilic cell adhesion molecule at the synapse. Expression of the isolated cytoplasmic tail of CADM1 in neurons inhibited synapse assembly. Conversely, expression of full-length CADM1 in nonneuronal cells induced synapse formation by cocultured hippocampal neurons with normal release properties. CADM1 has been shown to interact with EPB41L3.

Sequence Similarities: Belongs to the nectin family.

Molecular Weight: 60 kDa

Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Cell-Cell Junction Organization](#), [Activated T Cell Proliferation](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human, Rat, Mouse

1. Biederer, T., Sara, Y., Mozhayeva, M., Atasoy, D., Liu, X., Kavalali, E. T., Sudhof, T. C. SynCAM, a synaptic adhesion molecule that drives synapse assembly. Science 297: 1525-1531, 2002. 2. Gomyo H, Arai Y, Tanigami A, Murakami Y, Hattori M, Hosoda F, Arai K, Aikawa Y, Tsuda H, Hirohashi S, Asakawa S, Shimizu N, Soeda E, Sakaki Y, Ohki M (Feb 2000). "A 2-Mb sequence-ready contig map and a novel immunoglobulin superfamily gene IGSF4 in the LOH region of chromosome 11q23.2". Genomics 62 (2): 139-46. 3. Yageta, Mika, Kuramochi Masami, Masuda Mari, Fukami Takeshi, Fukuhara Hiroshi, Maruyama Tomoko, Shibuya Masabumi, Murakami

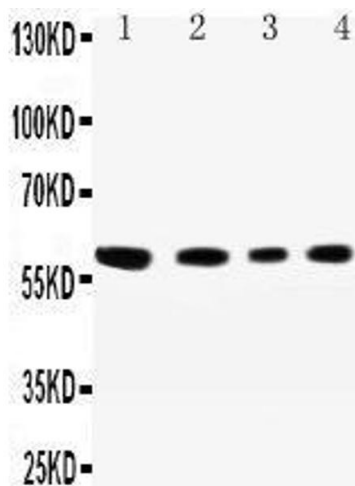
Application Details

	Yoshinori (Sep 2002). " association of TSLC1 and DAL-1, two distinct tumor suppressor proteins in lung cancer". Cancer Res. (United States) 62 (18): 5129-33.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1.