

Datasheet for ABIN3043770
anti-CADM1 antibody (AA 45-340)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	CADM1
Binding Specificity:	AA 45-340
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CADM1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-SynCAM/CADM1 Antibody Picoband®
Immunogen:	E.coli-derived human SynCAM recombinant protein (Position: Q45-P340). Human SynCAM shares 99% amino acid (aa) sequence identity with mouse SynCAM.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-SynCAM/CADM1 Antibody Picoband® (ABIN3043770). Tested in Flow Cytometry, 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.
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 metastatic melanoma, liver, skin, kidney, heart, lung, lymph node, skeletal muscle and brain, and also in A2058 melanoma cells and activated T-cells (at protein level). Expressed in blood vessels. Strongly expressed in endothelial cells, cytotrophoblasts, and poorly differentiated. colon adenocarcinoma cells found in lymphatics. . 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. Sequence Similarities: Belongs to the nectin family.
Molecular Weight:	49 kDa
Gene ID:	23705
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, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human 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 Yoshinori (Sep 2002). " association of TSLC1 and DAL-1, two distinct tumor suppressor
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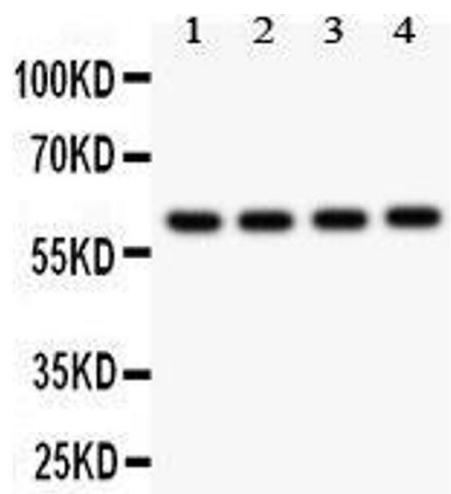
Application Details

	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

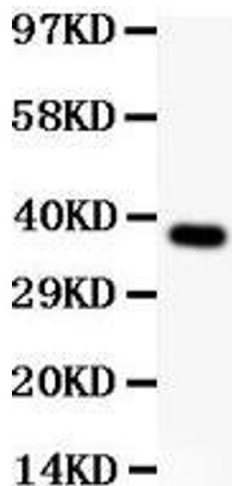
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE 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. Observed bind size: 60KD



Western Blotting

Image 2. Anti-SynCAM Picoband antibody, All lanes: Anti SYNCAM at 0.5ug/ml WB: Human Recombinant SYNCAM Protein 0.5ng Predicted bind size: 37KD Observed bind size: 37KD