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# Datasheet for ABIN738351 anti-CADM1 antibody (AA 365-442)

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#### Overview

Quantity:	100 µL
Target:	CADM1
Binding Specificity:	AA 365-442
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CADM1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human TSLC1
Isotype:	lgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Dog,Chicken
Purification:	Purified by Protein A.
Target Details	
Target:	CADM1

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Target Details	
Alternative Name:	TSLC1 (CADM1 Products)
Background:	Synonyms: BL2, ST17, IGSF4, NECL2, RA175, TSLC1, IGSF4A, Necl-2, SYNCAM, sgIGSF, sTSLC-
	1, synCAM1, Cell adhesion molecule 1, Immunoglobulin superfamily member 4, Nectin-like
	protein 2, Spermatogenic immunoglobulin superfamily, Synaptic cell adhesion molecule, Tumor
	suppressor in lung cancer 1, TSLC-1, CADM1
	Background: Mediates homophilic cell-cell adhesion in a Ca(2+)-independent manner. Also
	mediates heterophilic cell-cell adhesion with CADM3 and PVRL3 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.
Gene ID:	23705
UniProt:	Q9BY67
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,
	Cell-Cell Junction Organization, Activated T Cell Proliferation

# Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only

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Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

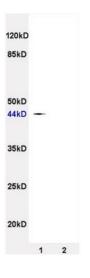
## Publications

Product cited in:

Yuan, Han, Cong, Ge, Ma, Dai, Li, Bi: "Docetaxel-loaded solid lipid nanoparticles suppress breast cancer cells growth with reduced myelosuppression toxicity." in: **International journal of nanomedicine**, Vol. 9, pp. 4829-46, (2014) (PubMed).

Liu, Cui, Ao, Zhou, Zhou, Yuan, Xiang, Liu, Cao et al.: "Aberrant methylation accounts for cell adhesion-related gene silencing during 3-methylcholanthrene and diethylnitrosamine induced multistep rat lung carcinogenesis associated with overexpression of ..." in: **Toxicology and applied pharmacology**, Vol. 251, Issue 1, pp. 70-8, (2011) (PubMed).

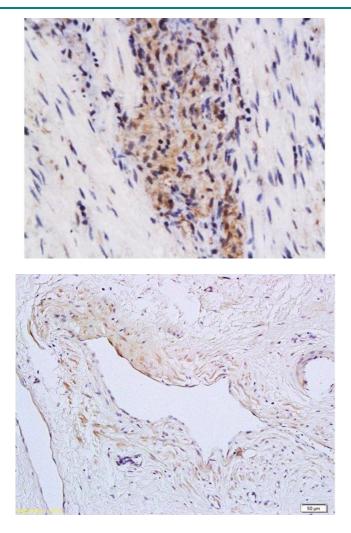
#### Images



#### SDS-PAGE

Image 1. L1 rat brain lysates, L2 rat heart lysates probed(ABIN738351)Anti-SynCAM/TSLC1Polyclonal,Unconjugated at 1:200 in 4 °C. Followed by conjugation tosecondary antibody at 1:3000 90min in 37 °C. Predictedband and observed band size: 44kD.

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#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Formalin-fixed and paraffin embedded human colon carcinoma labeled with Anti-SynCAM/TSLC1 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining.

## Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Formalin-fixed and paraffin embedded human cervical carcinoma tissue labeled with Anti-SynCAM/TSLC1 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining

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