

Rabbit Anti-TSLC1 antibody

SL6026R

Product Name TSLC1

Chinese Name Cell adhesion molecule1 抗体

Alias CADM1; BL2; Cadm1; CADM1_HUMAN; Cell adhesion molecule 1; IGSF4A; Immunoglobulin Superfamily Member 4; NECL-2; NECL2; Nectin like 2; Nectin-like protein 2; RA175; SgIGSF; Spermatogenic immunoglobulin superfamily; ST17; sTSLC 1; Synaptic cell Adhesion Molecule; SynCAM; SynCAM1; TSLC-1; TSLC1; Tumor Suppressor in Lung Cancer 1.

Research Area immunology Neurobiology Signal transduction Cell adhesion molecule

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, Rat, (predicted: Dog, Pig, Cow, Horse, Rabbit,)
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 44kDa

Cellular localization cytoplasmic The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human CADM1: 65-160/442
<Extracellular>

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

[PubMed](#)

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. May act as a synaptic cell adhesion molecule that drives synapse assembly. 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.

Product Detail

Function:

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. May act as a synaptic cell adhesion molecule that drives synapse assembly. 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.

Subunit:

Homodimer. Interacts with CRTAM and EPB41L3/DAL1. The interaction with EPB41L3/DAL1 may act to anchor CADM1 to the actin cytoskeleton. Interacts via its C-terminus with the PDZ domain of MPP3 and the PDZ domain of MPP6.

Subcellular Location:

Cell membrane; Single-pass type I membrane protein. Note=Associates with perinuclear and plasma membranes in vivo. Localized to the basolateral plasma membrane of epithelial cells in gall bladder.

Tissue Specificity:

Highly expressed in colon, kidney, prostate, intestine and activated lymphocytes. Expressed at much higher levels in the renal cell cancers than in surrounding normal kidney tissue. Moderately expressed in pancreas, ovary and testis.

DISEASE:

Defects in CA12 are the cause of hyperchlorhidrosis isolated (HCHLH) [MIM:143860]. HCHLH is a disorder characterized by excessive sweating and increased sweat chloride levels. Affected individuals suffer from episodes of hyponatremic dehydration and report increased amounts of visible salt precipitates in sweat.

Similarity:

Belongs to the nectin family.
Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

SWISS:

Q9BY67

Gene ID:

23705

Database links:

[Entrez Gene: 23705](#) Human

[Entrez Gene: 54725](#) Mouse

[Entrez Gene: 445438](#) Rat

[Omim: 605686](#) Human

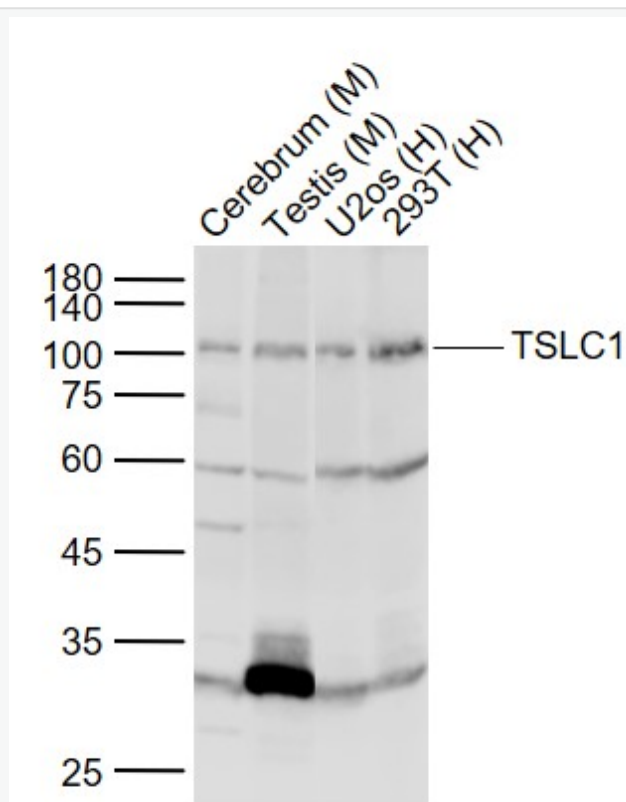
[SwissProt: Q9BY67](#) Human

[SwissProt: Q8R5M8](#) Mouse

[Unigene: 370510](#) Human

[Unigene: 234832](#) Mouse

**Product
Picture**



Sample:

Lane 1: Cerebrum (Mouse) Lysate at 40 ug

Lane 2: Testis (Mouse) Lysate at 40 ug

Lane 3: U2os (Human) Cell Lysate at 30 ug

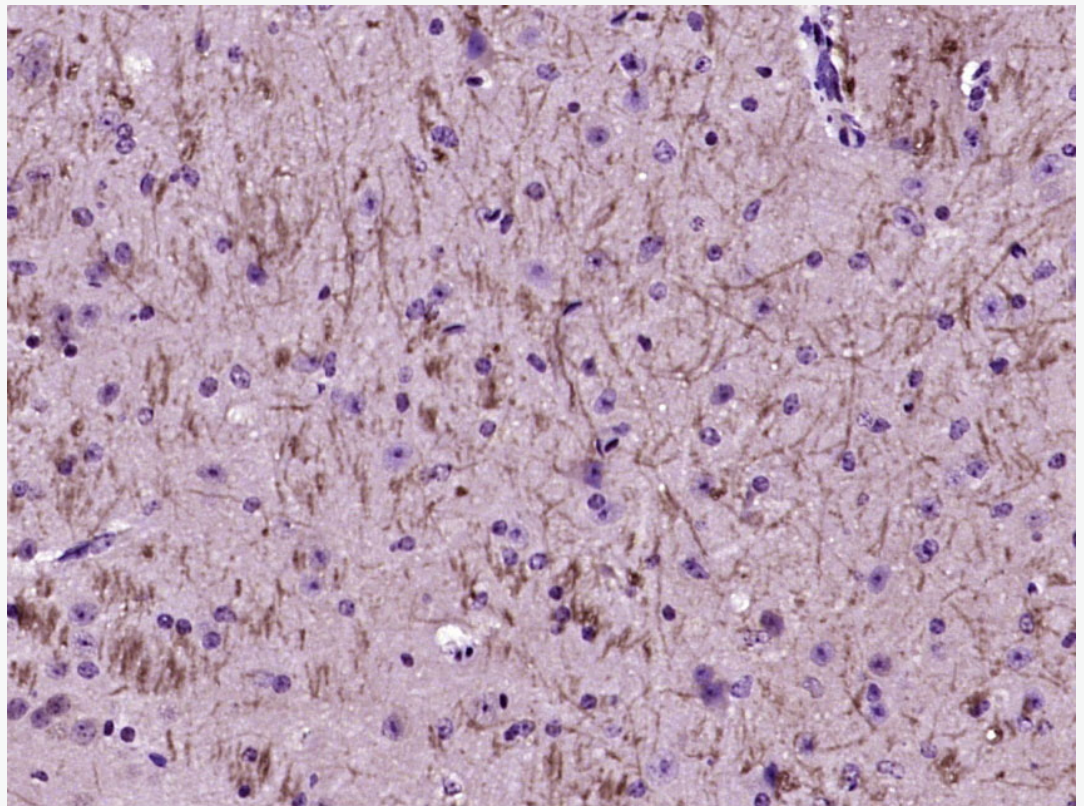
Lane 4: 293T (Human) Cell Lysate at 30 ug

Primary: Anti-TSLC1 (SL6026R) at 1/1000 dilution

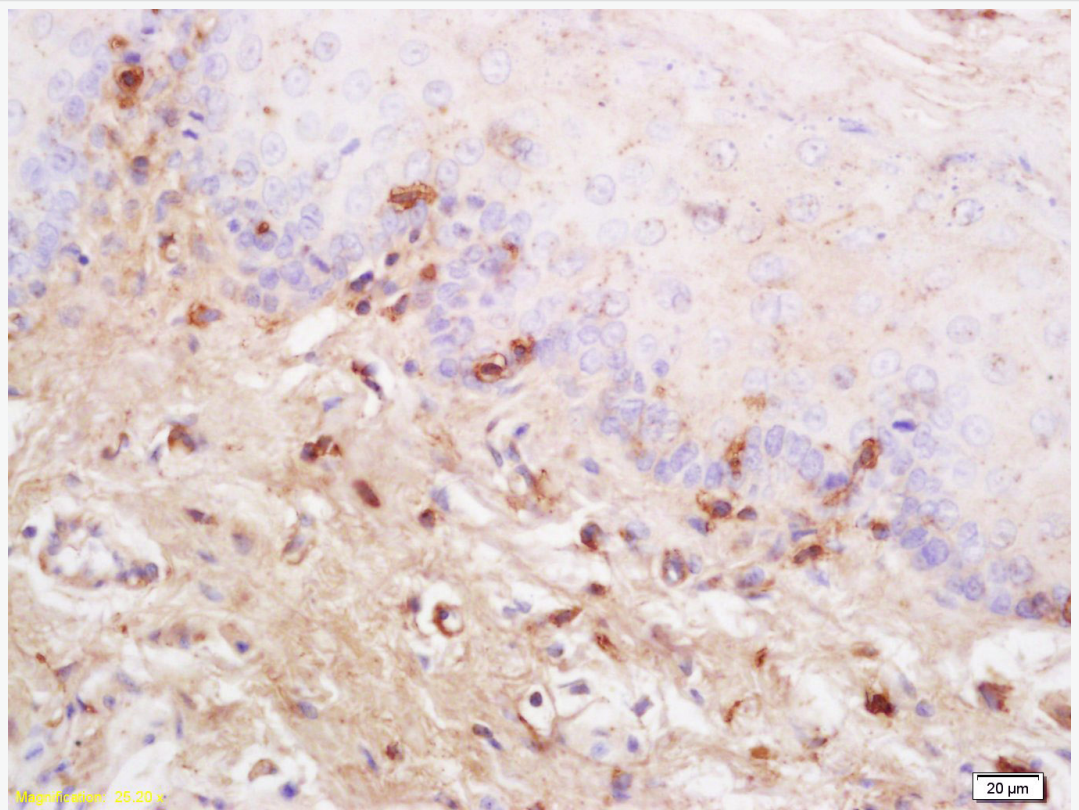
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 44 kD

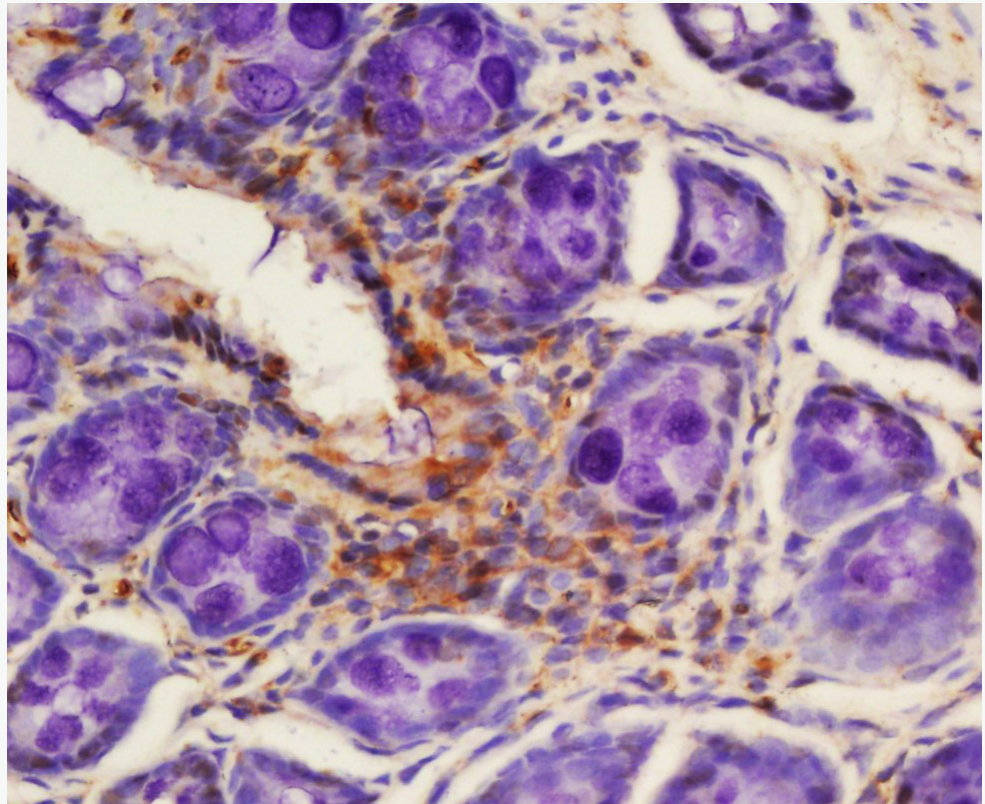
Observed band size: 100 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TSLC1) Polyclonal Antibody, Unconjugated (SL6026R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat tongue tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-SynCAM/TSLC1 Polyclonal Antibody,
Unconjugated(SL6026R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
(normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-TSLC1 Polyclonal Antibody, Unconjugated(SL6026R) 1:200,
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and
DAB(C-0010) staining