

Syntenin 1 Rabbit pAb

Catalog # AP98896

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O00560
Other Accession	O00560
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32444
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Syntenin 1
Epitope Specificity	121-220/298
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 2 PDZ (DHR) domains.
SUBUNIT	Monomer and homodimer. Interacts with SDC1, SDC2, SDC3, SDC4, NRXN2, EPHA7, EPHB1, NF2 isoform 1, TGFA and IL5RA. Interacts with neurofascin, SDCBP2 and PTPRJ.
Post-translational modifications	Phosphorylated on tyrosine residues.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Syntenin-1 (also known as syntenin, syndecan binding protein, melanoma differentiation-associated protein 9 or proTGF-alpha cytoplasmic domain-interacting protein 18) is a protein that binds to the cytoplasmic domains of the syndecans in yeast 2-hybrid screens and other assays. Syntenin-1 contains a tandem repeat of PDZ domains that reacts with the FYA (phe-tyr-ala) carboxy-terminal amino acid sequence of the syndecans. It may function as an adaptor that couples syndecans to cytoskeletal proteins or cytosolic downstream signal-effectors. Syntenin-1 colocalizes and interacts specifically with immature, intracellular forms of proTGF-alpha. It is a human gamma interferon responsive protein. Syntenin-1 contains PSD-95/Discs large/zO-1 (PDZ) domains and associates with the cytoplasmic tail of the IL-5Ralpha. It directly associates with the transcription factor Sox-4. The PDZ proteins PICK1, GRIP, ABP and syntenin-1 bind multiple glutamate receptor subtypes.

Additional Information

Gene ID	6386
Other Names	MDA-9; MDA9; SDCBP1; ST1; SYCL; TACIP18; syntenin-1; SDCB1_HUMAN; SDCBP; Melanoma differentiation-associated protein 9 (MDA-9); Pro-TGF-alpha cytoplasmic domain-interacting protein 18 (TACIP18); Scaffold protein Pbp1; Syndecan-binding protein 1; SDCB1_MOUSE; SDCB1_RAT;

syndecan binding protein; syntenin

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SDCBP
Synonyms	MDA9, SYCL
Function	Multifunctional adapter protein involved in diverse array of functions including trafficking of transmembrane proteins, neuro and immunomodulation, exosome biogenesis, and tumorigenesis (PubMed: 26291527). Positively regulates TGFB1-mediated SMAD2/3 activation and TGFB1-induced epithelial-to-mesenchymal transition (EMT) and cell migration in various cell types. May increase TGFB1 signaling by enhancing cell-surface expression of TGFR1 by preventing the interaction between TGFR1 and CAV1 and subsequent CAV1-dependent internalization and degradation of TGFR1 (PubMed: 25893292). In concert with SDC1/4 and PDCD6IP, regulates exosome biogenesis (PubMed: 22660413). Regulates migration, growth, proliferation, and cell cycle progression in a variety of cancer types (PubMed: 26539120). In adherens junctions may function to couple syndecans to cytoskeletal proteins or signaling components. Seems to couple transcription factor SOX4 to the IL-5 receptor (IL5RA) (PubMed: 11498591). May also play a role in vesicular trafficking (PubMed: 11179419). Seems to be required for the targeting of TGFA to the cell surface in the early secretory pathway (PubMed: 10230395).
Cellular Location	Cell junction, focal adhesion. Cell junction, adherens junction. Cell membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein. Nucleus. Melanosome. Cytoplasm, cytosol. Cytoplasm, cytoskeleton. Secreted, extracellular exosome. Membrane raft. Note=Mainly membrane-associated Localized to adherens junctions, focal adhesions and endoplasmic reticulum. Colocalized with actin stress fibers. Also found in the nucleus. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Associated to the plasma membrane in the presence of FZD7 and phosphatidylinositol 4,5-bisphosphate (PIP2) (PubMed:27386966).
Tissue Location	Expressed in lung cancers, including adenocarcinoma, squamous cell carcinoma and small-cell carcinoma (at protein level) (PubMed:25893292). Widely expressed. Expressed in fetal kidney, liver, lung and brain. In adult highest expression in heart and placenta.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.