

Recombinant Anti-Syntenin Rabbit mAb

Catalog # AP95294

Product Information

Application	WB, IHC, FC, IP, IF/IC
Primary Accession	O00560
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	32444

Additional Information

Gene ID	6386
Other Names	MDA9; SYCL; Syntenin-1; Melanoma differentiation-associated protein 9; MDA-9; Pro-TGF-alpha cytoplasmic domain-interacting protein 18; TACIP18; Scaffold protein Pbp1; Syndecan-binding protein 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human Syntenin protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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](#)).

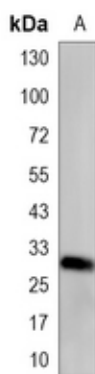
Cellular Location

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).

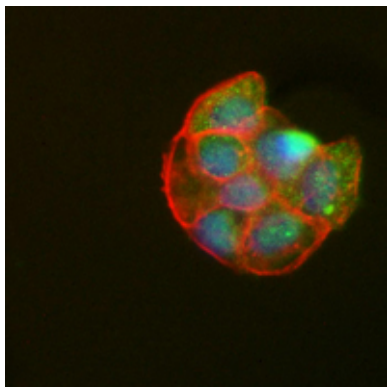
Tissue Location

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.

Images



Western blot analysis of Syntenin expression in HeLa (A) whole cell lysates. (Predicted band size: 32 kD; Observed band size: 32 kD)



Immunofluorescent analysis of Syntenin staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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