

Syntenin Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52733**Specification**

Syntenin Antibody - Product Information

Application	WB
Primary Accession	O00560
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	32 KDa

Syntenin Antibody - Additional Information**Gene ID** 6386**Other Names**

MDA-9;MDA9;Melanoma differentiation-associated protein 9;Pro-TGF-alpha cytoplasmic domain-interacting protein 18;Scaffold protein Pbp1;SDCB1_HUMAN;Sdcbp;SDCBP;ST1;SYCL;Syndecan binding protein (syntenin);Syndecan binding protein 1;Syndecan-binding protein 1;Syntenin 1;Syntenin-1;TACIP18.

Dilution

WB~~1:1000

Format

Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.09% (W/V) sodium azide, 50%,glycerol

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Syntenin Antibody - 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.

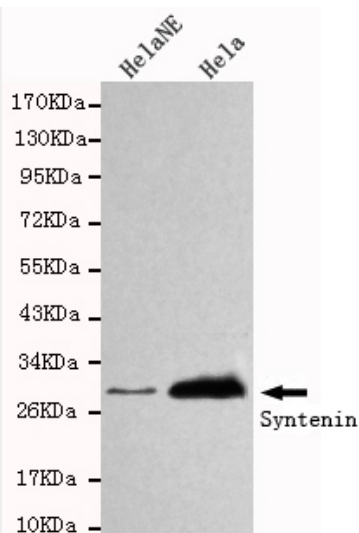
Syntenin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Syntenin Antibody - Images





Western blot detection of Syntenin in HeLaNE and HeLa cell lysates using Syntenin mouse mAb (1:1000 diluted). Predicted band size: 32KDa. Observed band size: 32KDa.

Syntenin Antibody - Background

Seems to function as an adapter protein. 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). May also play a role in vesicular trafficking. Seems to be required for the targeting of TGFA to the cell surface in the early secretory pathway.

Syntenin Antibody - References

- Lin J.J., et al. Mol. Cell. Differ. 4:317-333(1996).
- Grootjans J.J., et al. Proc. Natl. Acad. Sci. U.S.A. 94:13683-13688(1997).
- Burbelo P.D., et al. Submitted (JAN-1997) to the EMBL/GenBank/DDBJ databases.
- Lin J.J., et al. Gene 207:105-110(1998).
- Ota T., et al. Nat. Genet. 36:40-45(2004).