

KD-Validated Anti-Syndecan binding protein Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1079**Specification****KD-Validated Anti-Syndecan binding protein Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	O00560
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 32 kDa , observed, 32 kDa KDa
Gene Name	SDCBP
Aliases	SDCBP; Syndecan Binding Protein; MDA-9; SYCL; Syntenin-1; Pro-TGF-Alpha Cytoplasmic Domain-Interacting Protein 18; Syndecan-Binding Protein 1; Scaffold Protein Pbp1; TACIP18; SDCBP1; MDA9; Melanoma Differentiation Associated Protein-9; Melanoma Differentiation-Associated Protein 9; Syndecan Binding Protein (Syntenin); Syntenin; ST1
Immunogen	A synthesized peptide derived from human Syntenin

KD-Validated Anti-Syndecan binding protein Rabbit Monoclonal Antibody - Additional Information

Gene ID	6386
Other Names	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, SDCBP, MDA9, SYCL

KD-Validated Anti-Syndecan binding protein Rabbit Monoclonal 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 TGF β 1 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.

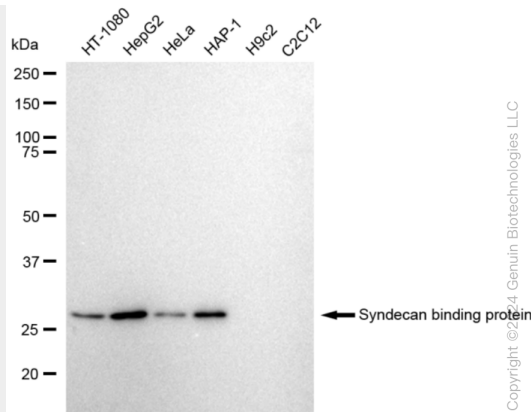
KD-Validated Anti-Syndecan binding protein Rabbit Monoclonal Antibody - Protocols

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

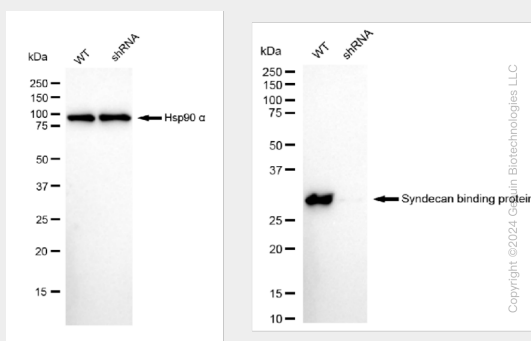
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Syndecan binding protein Rabbit Monoclonal Antibody - Images

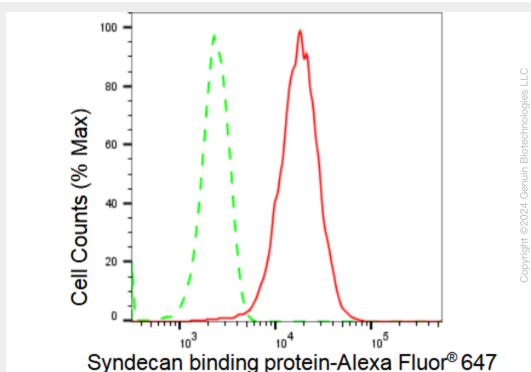




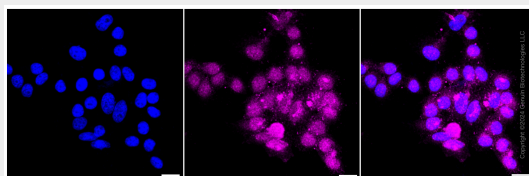
Western blotting analysis using anti-Syndecan binding protein antibody (Cat#AGI1079). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Syndecan binding protein antibody (Cat#AGI1079, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Syndecan binding protein antibody (Cat#AGI1079). Syndecan binding protein expression in wild type (WT) and syndecan binding protein shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Syndecan binding protein antibody (Cat#AGI1079, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Syndecan binding protein expression in HepG2 cells using Syndecan binding protein antibody (Cat#AGI1079, 1:2,000). Green, isotype control; red, Syndecan binding protein.



Immunocytochemical staining of HepG2 cells with Syndecan binding protein antibody (Cat#AGI1079, 1:1,000). Nuclei were stained blue with DAPI; Syndecan binding protein was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.