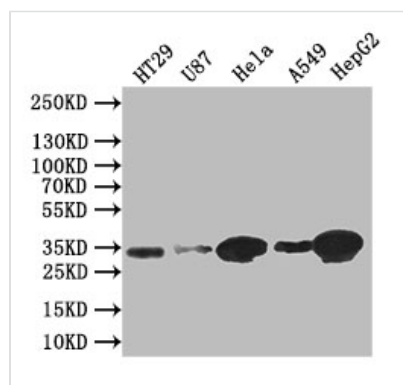




SDCBP Recombinant Monoclonal Antibody

Product Code	CSB-RA248860A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	O00560
Immunogen	A synthesized peptide derived from Human SDCBP
Species Reactivity	Human
Tested Applications	ELISA, WB, IF, FC; Recommended dilution: WB:1:500-1:2000, IF:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	SDCBP
Clone No.	19C1

Image



Western Blot

Positive WB detected in: HT29 whole cell lysate, U87 whole cell lysate, HeLa whole cell lysate, A549 whole cell lysate, HEPG2 whole cell lysate

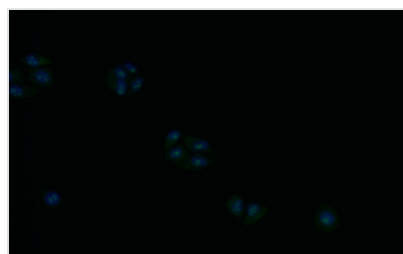
All lanes: Syntenin antibody at 1:1000

Secondary

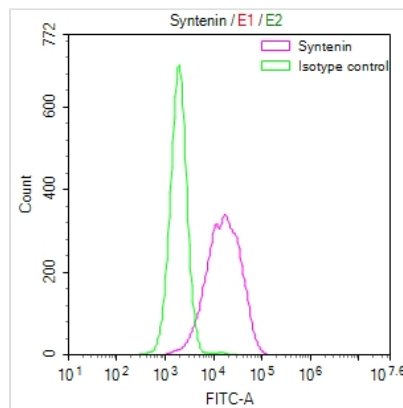
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 32 kDa

Observed band size: 32 kDa



Immunofluorescence staining of HeLa with CSB-RA248860A0HU at 1:30, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 521-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Overlay Peak curve showing HepG2 cells stained with CSB-RA248860A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1 μ g/1 \times 10⁶ cells) for 45min at 4 $^{\circ}$. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4 $^{\circ}$. Control antibody (green line) was rabbit IgG (1 μ g/1 \times 10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

Utilizing in vitro expression systems, the SDCBP recombinant monoclonal antibody is generated by cloning the DNA sequences of SDCBP antibodies from immunoreactive rabbits. The immunogen utilized in this process is a synthesized peptide originating from the human SDCBP protein. Subsequently, the genes encoding the SDCBP antibodies are incorporated into plasmid vectors, and these recombinant plasmid vectors are introduced into host cells to facilitate the expression of the antibody. Once expressed, the SDCBP recombinant monoclonal antibody undergoes purification through affinity chromatography. It is then subjected to extensive testing in ELISA, WB, IF, and FC applications, conclusively demonstrating reactivity with the human SDCBP protein.

SDCBP is a versatile protein involved in cell adhesion, signaling, intracellular trafficking, and cytoskeleton regulation. SDCBP's interactions with syndecan receptors and other binding partners allow it to participate in a wide range of cellular processes, with implications for normal physiological functions and pathological conditions, including cancer and immune responses.