

Anti-Syndecan-4 Antibody (7T56)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	7T56
Purification:	Protein A

Applications

Verified Activity:	<ol style="list-style-type: none">1. Anti-SDC4 rabbit monoclonal antibody at 1:500 dilution.<ul style="list-style-type: none">-Lane A: HepG2 Whole Cell Lysate.-Lane B: Hela Whole Cell lysate.-Lysates/proteins at 30 µg per lane.-Secondary<ul style="list-style-type: none">-Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.-Developed using the Odyssey technique.-Performed under reducing conditions.-Predicted band size:22 kDa.-Observed band size:22 kDa.2. Flow cytometric analysis of Mouse SDC4 expression on BABL/c splenocytes. Cells were stained with purified anti-Mouse SDC4, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM,WB
Recommended	WB: 1:500-1:1000; FCM: 1:25-1:100

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Mouse Syndecan-4 / SDC4 protein (TMPY-02392)
Antigen Species:	Mouse
Synonyms:	syndecan 4;SYND4

Research Background

SDC4 (Syndecan-4), also known as Syn4, is a transmembrane heparan sulfate proteoglycan that co-operates with integrins during cell-matrix interactions for the assembly of focal adhesions and actin stress fibers and in the phosphorylation of focal adhesion kinase (FAK) on Tyr397. Syndecan-4 plays roles in the formation of focal adhesions and stress fibers. The cytoplasmic domain of syndecan-4 interacts with several signalling and structural proteins, and both extracellular and cytoplasmic domains are necessary for regulated activation of associated

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transmembrane receptors. Syndecan-4/SDC4 is a heparan sulfate proteoglycan and works as a coreceptor for various growth factors. SDC4 deficiency limits neointimal formation after vascular injury by regulating vascular smooth muscle cells (VSMCs) proliferation and vascular progenitor cells (VPCs) mobilization. Therefore, SDC4 may be a novel therapeutic target for preventing arterial restenosis after angioplasty.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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