

## Anti-Syndecan-4 Antibody (2H831)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	2H831
Purification:	Protein A

## Applications

Verified Activity:	<ol style="list-style-type: none"><li>1. Immunofluorescence staining of SDC4 in mouse splenocytes. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-mouse SDC4 monoclonal antibody (1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.</li><li>2. Immunochemical staining of mouse SDC4 in mouse stomach with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).</li><li>3. Immunochemical staining of mouse SDC4 in mouse intestine with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).</li></ol>
Application:	IHC-P
Recommended	IHC-P: 1:100-1:500

## 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 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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