

Rabbit anti-Mouse Syndecan-4 Monoclonal Antibody | anti-SDC4 antibody

Recombinant Anti-Syndecan-4 Antibody, Rabbit Monoclonal

CATALOG # AAA257218	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunofluorescence, Immunocytochemistry, Immunohistochemistry
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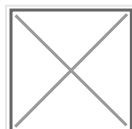
PRODUCT SYNONYMS

Syndecan-4; Monoclonal Antibody; Recombinant Anti-Syndecan-4 Antibody; Rabbit Monoclonal; Syndecan-4/SDC4 Antibody; Rabbit MAb; syndecan 4; Anti-AA959608 Antibody; Anti-AW108331 Antibody; Anti-ryudocan Antibody; Anti-Synd4 Antibody; Anti-syndecan-4 Antibody; anti-SDC4 antibody

PRODUCT SPECIFICATIONS

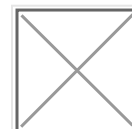
Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	047
Specificity	Mouse Syndecan-4/SDC4. No cross-reactivity in ELISA with Mouse SDC1
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-SDC4 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse Syndecan-4/SDC4 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse Syndecan-4/SDC4 (rM Syndecan-4/SDC4).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of mouse SDC4 in mouse intestine with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of mouse SDC4 in mouse stomach with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).



IF (Immunofluorescence)

Immunofluorescence staining of SDC4 in Hela cells or 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 degree 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.

ADDITIONAL INFORMATION

Related Product Information for anti-SDC4 antibody	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.
References	Ikesue M, et al. (2011) Syndecan-4 deficiency limits neointimal formation after vascular injury by regulating vascular smooth muscle cell proliferation and vascular progenitor cell mobilization. Arterioscler Thromb Vasc Biol. 31(5): 1066-74.Saoncella S, et al. (2004) Syndecan-4 regulates ATF-2 transcriptional activity in a Rac1-dependent manner. J Biol Chem. 279(45): 47172-6.Bass MD, et al. (2002) Cytoplasmic interactions of syndecan-4 orchestrate adhesion receptor and growth factor receptor signalling. Biochem J. 368(Pt 1): 1-15.Couchman JR, et al. (1999) Syndecan-4 and integrins: combinatorial signaling in cell adhesion. J Cell Sci. 112 (Pt 20): 3415-20.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6755442
NCBI GeneID	20971
NCBI Accession #	NP_035651.1
NCBI GenBank Nucleotide #	NM_011521.2
UniProt Accession #	O35988
Molecular Weight	21,482 Da
NCBI Official Full Name	syndecan-4
NCBI Official Synonym Full Names	syndecan 4
NCBI Official Symbol	Sdc4
NCBI Official Synonym Symbols	Synd4; AA959608; AW108331; ryudocan; syndecan-4
NCBI Protein Information	syndecan-4; ryudocan core protein
UniProt Protein Name	Syndecan-4
UniProt Gene Name	Sdc4
UniProt Synonym Gene Names	SYND4
UniProt Entry Name	SDC4_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

