

Rabbit Syndecan 4 Polyclonal Antibody | anti-SDC4 antibody

Phospho-Syndecan 4 (Ser179) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329658	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (89%), Dog (89%), Chicken (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Syndecan 4; Polyclonal Antibody; Phospho-Syndecan 4 (Ser179) Antibody; Amphiglycan; MGC22217; OTTHUMP00000031788; ryudocan amphiglycan; Ryudocan; Ryudocan core protein; SDC 4; Sdc4; SDC4_HUMAN; SYND 4; SYND4; syndecan 4; syndecan 4 (amphiglycan; ryudocan); syndecan proteoglycan 4; Syndecan-4; Syndecan4; anti-SDC4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (89%), Dog (89%), Chicken (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Syndecan 4 (Ser179) Antibody detects endogenous levels of Syndecan 4 only when phosphorylated at Ser179. Tissue Specificity: Expressed in epithelial and fibroblastic cells.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-SDC4 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Syndecan 4 around the phosphorylation site of Ser179.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Shedding is enhanced by a number of factors such as heparanase, thrombin or EGF. Also by stress and wound healing. PMA-mediated shedding is inhibited by TIMP3.
Subunit Structure	Homodimer. Interacts (via its cytoplasmic domain) with GIPC (via its PDZ domain). Interacts (via its cytoplasmic domain) with NUDT16L1 (By similarity). Interacts with CDCP1 and SDCBP.
Similarity	Belongs to the syndecan proteoglycan family.
Subcellular Location	Membrane>Single-pass type I membrane protein. Secreted. Note: Shedding of the ectodomain produces a soluble form. Secreted.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

At 1/200 staining Human heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



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WB (Western Blot)

Western blot analysis Syndecan4 (Phospho-Ser179) using EGF treated 293 whole cell lysates. -/+ means absence or presence of N peptide/non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-SDC4 antibody	Cell surface proteoglycan that bears heparan sulfate. Regulates exosome biogenesis in concert with SDCBP and PDCCD6IP.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	38201675
NCBI GeneID	6385
NCBI Accession #	NP_002990.2
NCBI GenBank Nucleotide #	NM_002999.3
UniProt Accession #	P31431; O00773; Q16833; Q53FN9; Q6FGN3
Molecular Weight	21,642 Da
NCBI Official Full Name	syndecan-4
NCBI Official Synonym Full Names	syndecan 4
NCBI Official Symbol	SDC4
NCBI Official Synonym Symbols	SYND4
NCBI Protein Information	syndecan-4; amphiglycan; ryudocan amphiglycan; ryudocan core protein; syndecan proteoglycan 4; syndecan 4 (amphiglycan, ryudocan)
UniProt Protein Name	Syndecan-4
UniProt Gene Name	SDC4
UniProt Synonym Gene Names	SYND4
UniProt Entry Name	SDC4_HUMAN

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.