

Datasheet for ABIN3042886
anti-SDC3 antibody (N-Term)[Go to Product page](#)

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Overview

Quantity:	100 µg
Target:	SDC3
Binding Specificity:	AA 45-60, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Syndecan-3(SDC3) detection. Tested with WB, IHC-P in Human, Mouse, Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of mouse Syndecan 3/SDC3 (45-60aa AQRWRNENFERPVDLE), identical to the related rat sequence, and different from the related human sequence by one amino acid.
Sequence:	AQRWRNENFE RPVDLE
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: mouse</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>
Characteristics:	Rabbit IgG polyclonal antibody for Syndecan-3(SDC3) detection. Tested with WB, IHC-P in

Product Details

Human,Mouse,Rat.

Gene Name: syndecan 3

Protein Name: Syndecan-3

Purification: Immunogen affinity purified.

Target Details

Target: SDC3

Alternative Name: SDC3 ([SDC3 Products](#))

Background: Syndecan-3, also called SYND3 is a protein that in humans is encoded by the SDC3 gene. This gene was assigned to human chromosome 1p35.2. This gene can function as in trans HIV receptors via binding of HIV-1 gp120 to the syndecan heparin sulfate chains. It may play a role in the organization of cell shape by affecting the actin cytoskeleton, and possibly by transferring signals from the cell surface in a sugar-dependent mechanism. In wildtype mice, SDC3 was expressed in hypothalamic regions that control energy balance. It was proposed that oscillation of hypothalamic SDC3 levels physiologically modulates feeding behavior.

Synonyms: N-syndecan antibody|Sdc3 antibody|SDC3_HUMAN antibody|SDCN antibody|SYND3 antibody|syndecan proteoglycan 3 antibody|Syndecan-3 antibody

UniProt: [Q64519](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,
Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

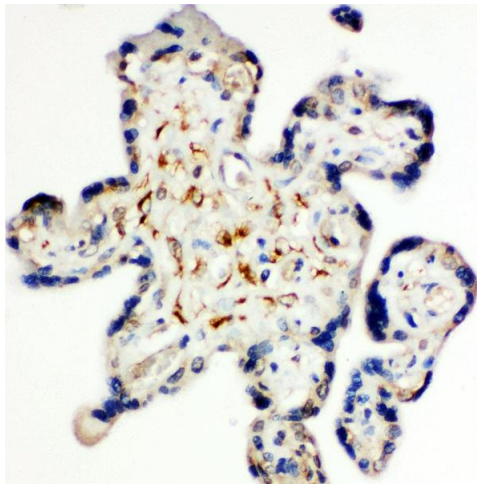
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Publications

Product cited in:	<p>Yao, Zhao, Ou, Liang, Lin, Wang: "MicroRNA-214 Suppresses Osteogenic Differentiation of Human Periodontal Ligament Stem Cells by Targeting ATF4." in: Stem cells international, Vol. 2017, pp. 3028647, (2017) (PubMed).</p> <p>Wang, Wang, Dai, Chen, Yang, Dai, Ou, Wang, Lin: "Effects of Intermittent Administration of Parathyroid Hormone (1-34) on Bone Differentiation in Stromal Precursor Antigen-1 Positive Human Periodontal Ligament Stem Cells." in: Stem cells international, Vol. 2016, pp. 4027542, (2016) (PubMed).</p> <p>Li, Chen, Peng, Zhou, Fang: "Pulsed electromagnetic fields protect the balance between adipogenesis and osteogenesis on steroid-induced osteonecrosis of femoral head at the pre-collapse stage in rats." in: Bioelectromagnetics, Vol. 35, Issue 3, pp. 170-80, (2014) (PubMed).</p> <p>Song, Yu, Zhao, Wei, Liu, Hu, Zhao, Yang, Wu: "The time-dependent manner of sinusoidal electromagnetic fields on rat bone marrow mesenchymal stem cells proliferation, differentiation, and mineralization." in: Cell biochemistry and biophysics, Vol. 69, Issue 1, pp.</p>
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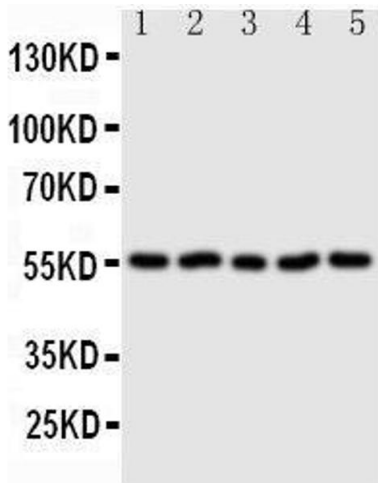
47-54, (2014) ([PubMed](#)).

Mu, Lv, Wang, Ma, Ma, Liu, Yu, Mu: "Mechanical stress stimulates the osteo/odontoblastic differentiation of human stem cells from apical papilla via erk 1/2 and JNK MAPK pathways." in: **BioMed research international**, Vol. 2014, pp. 494378, (2014) ([PubMed](#)).



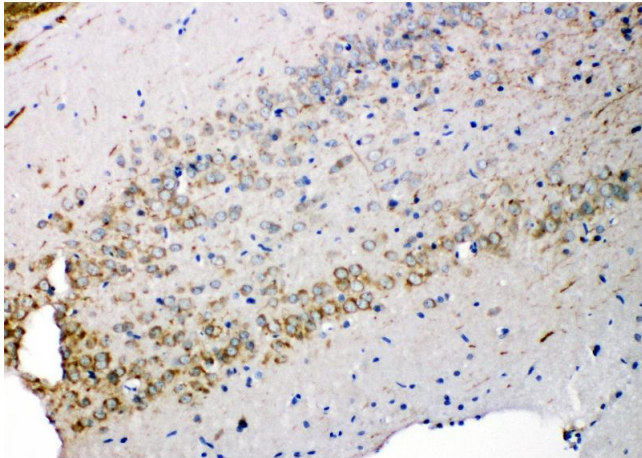
Immunohistochemistry

Image 1. Anti-Syndecan 3 antibody, IHC(P) IHC(P): Human Placenta Tissue



Western Blotting

Image 2. Anti-Syndecan 3 antibody, Western blotting Lane 1: U87 Cell Lysate Lane 2: 293T Cell Lysate Lane 3: PC-12 Cell Lysate Lane 4: NRK Cell Lysate Lane 5: Cell Lysate



Immunohistochemistry

Image 3. Anti-Syndecan 3 antibody, IHC(P) IHC(P): Rat Brain
Tissue