

Anti-Syndecan 4 Antibody [PSH0-72] - BSA and Azide free

HA750651



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 22 kDa
Clone number:	PSH0-72

Description: Syndecan-4 is a transmembrane (type I) heparan sulfate proteoglycan that functions as a receptor in intracellular signaling. The protein is found as a homodimer and is a member of the syndecan proteoglycan family. Syndecan-4 interacts with extracellular matrix, anticoagulants, and growth-factors. It also regulates the actin cytoskeleton, cell adhesion, and cell migration. Syndecan-4 activates protein kinase C (PKC), an enzyme involved in signal transduction. The variable domain of syndecan-4 could be a site of self-association. The degree of oligomerization correlates with the activity of kinases, so the degree of clustering of syndecan-4 correlates to PKC activity. Syndecan-4 also binds to phosphatidylinositol (4,5)-bisphosphate (PIP2) through the variable domain and increases PKC activity ten-fold. Syndecan-4 is also a regulator of fibroblast growth factor-2 (FGF-2) signaling. Syndecan-4 binds to FGF and mediates interaction with the FGF receptor. Because the tight correlation between syndecan-4 and growth factors, the efficiency of angiogenic therapies have been thought to relate to syndecan-4. Growth factor signaling may be disrupted by changes in syndecan-4 expression. The cellular uptake, trafficking, and nuclear localization of FGF-2 could be increased by co-delivery of syndecan-4 proteoliposomes. These alterations should be considered in FGF-2-based therapies. Syndecan-4 is also associated with the healing process. Lack of Sdc4 gene causes delayed wound healing in mice. This delay may be due to compromised fibroblast motility.

Immunogen:	Recombinant protein within human Syndecan 4 Extracellular.
Positive control:	HepG2 cell lysate, Jurkat cell lysate, HeLa cell lysate, U-87 MG cell lysate, A549 cell lysate, MCF7 cell lysate, MDA-MB-231 cell lysate.
Subcellular location:	Membrane, Secreted.
Database links:	SwissProt: P31431 Human
Recommended Dilutions:	
WB	1:1,000
Storage Buffer:	1*PBS (pH7.4).
Storage Instruction:	Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.
Purity:	Protein A affinity purified.

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Orders:0086-571-88062880

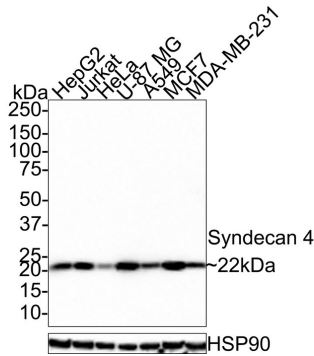
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of Syndecan 4 on different lysates with Rabbit anti-Syndecan 4 antibody (HA750651) at 1/1,000 dilution.



Lane 1: HepG2 cell lysate
 Lane 2: Jurkat cell lysate
 Lane 3: HeLa cell lysate
 Lane 4: U-87 MG cell lysate
 Lane 5: A549 cell lysate
 Lane 6: MCF7 cell lysate
 Lane 7: MDA-MB-231 cell lysate

Lysates/proteins at 40 µg/Lane.

Predicted band size: 22 kDa
 Observed band size: 22 kDa

Exposure time: 45 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750651) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Onyeisi JOS et al. Syndecan-4 as a Pathogenesis Factor and Therapeutic Target in Cancer. *Biomolecules*. 2021 Mar
2. Keller-Pinter A et al. Syndecan-4 in Tumor Cell Motility. *Cancers (Basel)*. 2021 Jul

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