

# Anti-Syndecan 4 Antibody [PSH0-72]

HA721473



|                            |   |
|----------------------------|---|
| <b>Product Type:</b>       | Recombinant Rabbit monoclonal IgG, primary antibodies |
| <b>Species reactivity:</b> | Human   |
| <b>Applications:</b>       | WB  |
| <b>Molecular Wt:</b>       | Predicted band size: 22 kDa                           |
| <b>Clone number:</b>       | 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.

|                               |   |
|-------------------------------|---|
| <b>Immunogen:</b>             | Recombinant protein within human Syndecan 4 Extracellular.  |
| <b>Positive control:</b>      | 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.   |
| <b>Subcellular location:</b>  | Membrane, Secreted.   |
| <b>Database links:</b>        | SwissProt: P31431 Human   |
| <b>Recommended Dilutions:</b> |   |
| <b>WB</b>                     | 1:1,000   |
| <b>Storage Buffer:</b>        | PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.  |
| <b>Storage Instruction:</b>   | Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term. |
| <b>Purity:</b>                | Protein A affinity purified.  |

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Orders:0086-571-88062880

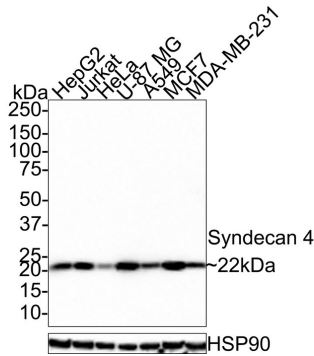
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## Images

**Fig1:** Western blot analysis of Syndecan 4 on different lysates with Rabbit anti-Syndecan 4 antibody (HA721473) 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 (HA721473) 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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