

Anti-VSIG4 Antibody [PSH06-55]

HA722718



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 44 kDa
Clone number:	PSH06-55

Description: V-set and immunoglobulin domain containing 4 is a protein that in humans is encoded by the VSIG4 gene. This gene encodes a v-set and immunoglobulin-domain containing protein that is structurally related to the B7 family of immune regulatory proteins. The encoded protein may be a negative regulator of T-cell responses. This protein is also a receptor for the complement component 3 fragments C3b and iC3b. Alternate splicing results in multiple transcript variants.

Immunogen: Recombinant protein within human VSIG4 aa 1-304.

Positive control: THP-1 cell lysate, Jurkat cell lysate, Human liver tissue lysate, Human lung tissue lysate, human liver tissue, human lung tissue.

Subcellular location: Membrane.

Database links: SwissProt: Q9Y279 Human

Recommended Dilutions:

WB	1:1,000
IHC-P	1:200

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: 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.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

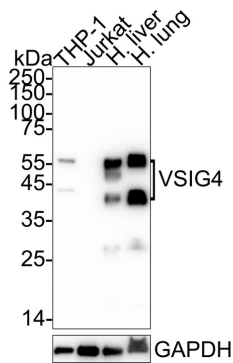
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of VSIG4 on different lysates with Rabbit anti-VSIG4 antibody (HA722718) at 1/1,000 dilution.



Lane 1: THP-1 cell lysate (20 µg/Lane)

Lane 2: Jurkat cell lysate (20 µg/Lane)

Lane 3: Human liver tissue lysate (40 µg/Lane)

Lane 4: Human lung tissue lysate (40 µg/Lane)

Predicted band size: 44 kDa

Observed band size: 37-55 kDa

Exposure time: 1 minute 2 seconds; ECL: K1801;
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 (HA722718) at 1/1,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

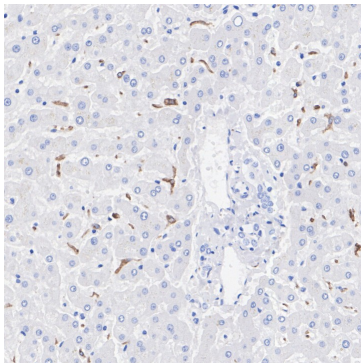


Fig2: Immunohistochemical analysis of paraffin-embedded human liver tissue with Rabbit anti-VSIG4 antibody (HA722718) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722718) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

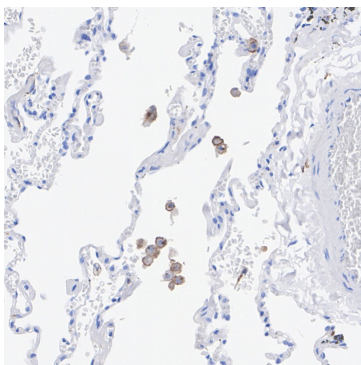


Fig3: Immunohistochemical analysis of paraffin-embedded human lung tissue with Rabbit anti-VSIG4 antibody (HA722718) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722718) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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

Background References

1. Liu B et al. The biology of VSIG4: Implications for the treatment of immune-mediated inflammatory diseases and cancer. *Cancer Lett.* 2023 Jan
2. Wang Y et al. Hypoxia Induces M2 Macrophages to Express VSIG4 and Mediate Cardiac Fibrosis After Myocardial Infarction. *Theranostics.* 2023 Apr

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