

Anti-MAP4K1 / HPK1 Antibody [PSH07-24]

HA722812



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P, IP
Molecular Wt:	Predicted band size: 91 kDa
Clone number:	PSH07-24

Description: Mitogen-activated protein kinase kinase kinase 1 is a protein kinase that in humans is encoded by the MAP4K1 gene. It is also known as HPK1 (Hematopoietic Progenitor Kinase 1). The protein has been shown to play a role in JNK activation.

Immunogen: Recombinant protein within human MAP4K1 aa 301-500.

Positive control: Jurkat cell lysate, Raji cell lysate, Ramos cell lysate, Daudi cell lysate, THP-1 cell lysate, human lymph node tissue, human spleen tissue.

Subcellular location: Cytoplasm, membrane.

Database links: SwissProt: Q92918 Human

Recommended Dilutions:

WB	1:2,000
IHC-P	1:2,000
IP	1-2µg/sample

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

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

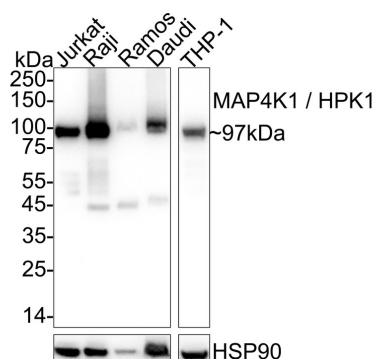


Fig1: Western blot analysis of MAP4K1 / HPK1 on different lysates with Rabbit anti-MAP4K1 / HPK1 antibody (HA722812) at 1/2,000 dilution.

Lane 1: Jurkat cell lysate (20 µg/Lane)

Lane 2: Raji cell lysate (20 µg/Lane)

Lane 3: Ramos cell lysate (20 µg/Lane)

Lane 4: Daudi cell lysate (20 µg/Lane)

Lane 5: THP-1 cell lysate (20 µg/Lane)

Predicted band size: 91 kDa

Observed band size: 97 kDa

Exposure time: 6 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 (HA722812) at 1/2,000 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.

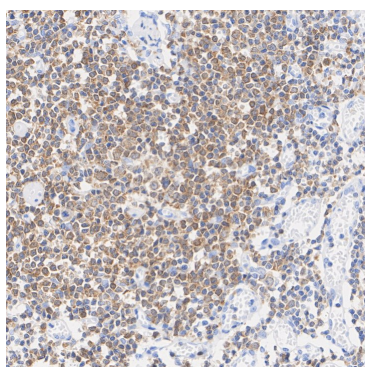


Fig2: Immunohistochemical analysis of paraffin-embedded human lymph node tissue with Rabbit anti-MAP4K1 / HPK1 antibody (HA722812) at 1/2,000 dilution.

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 (HA722812) at 1/2,000 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.

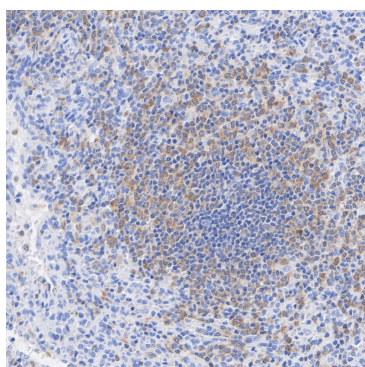


Fig3: Immunohistochemical analysis of paraffin-embedded human spleen tissue with Rabbit anti-MAP4K1 / HPK1 antibody (HA722812) at 1/2,000 dilution.

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 (HA722812) at 1/2,000 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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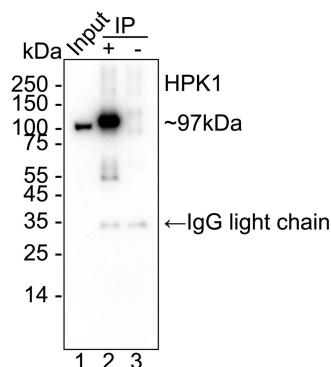


Fig4: MAP4K1 / HPK1 was immunoprecipitated from 0.2 mg Jurkat cell lysate with HA722812 at 2 μ g/10 μ l beads. Western blot was performed from the immunoprecipitate using HA722812 at 1/1,000 dilution. Anti-Rabbit IgG for IP, AlpSdAbs® VHH(HRP) (025-100-005) at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: Jurkat cell lysate (input)

Lane 2: HA722812 IP in Jurkat cell lysate

Lane 3: Rabbit IgG instead of HA722812 in Jurkat cell lysate

Blocking/Dilution buffer: 5% NFDM/TBST

Exposure time: 8 seconds; ECL: K1801

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

Background References

1. Sun JM et al. Glioblastoma cellular MAP4K1 facilitates tumor growth and disrupts T effector cell infiltration. Life Sci Alliance. 2023 Sep
2. He TS et al. The Kinase MAP4K1 Inhibits Cytosolic RNA-Induced Antiviral Signaling by Promoting Proteasomal Degradation of TBK1/IKKepsilon. Microbiol Spectr. 2021 Dec

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