

Anti-MAP4K1 / HPK1 Antibody

ER63713



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 91 kDa

Description: catalytic activity:ATP + a protein = ADP + a phosphoprotein. cofactor:Magnesium. May play a role in the response to environmental stress. Appears to act upstream of the JUN N-terminal pathway. May play a role in hematopoietic lineage decisions and growth regulation. Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 CNH domain. Contains 1 protein kinase domain. subunit:Interacts with MAP3K1. tissue specificity:Expressed primarily in hematopoietic organs, including bone marrow, spleen and thymus. Also expressed at very low levels in lung, kidney, mammary glands and small intestine.

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

Positive control: Raji cell lysate, Daudi cell lysate, human spleen tissue, rat spleen tissue.

Subcellular location: Cytoplasm, membrane.

Database links: SwissProt: Q92918 Human

Recommended Dilutions:

WB	1:500-1:2,000
IHC-P	1:200

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

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

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

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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

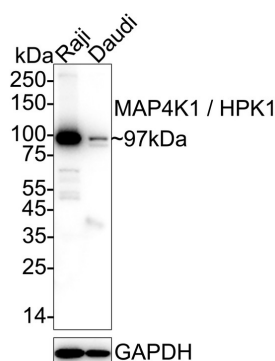


Fig1: Western blot analysis of MAP4K1 / HPK1 on different lysates with Rabbit anti-MAP4K1 / HPK1 antibody (ER63713) at 1/2,000 dilution.

Lane 1: Raji cell lysate

Lane 2: Daudi cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 91 kDa

Observed band size: 97 kDa

Exposure time: 10 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 (ER63713) 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.

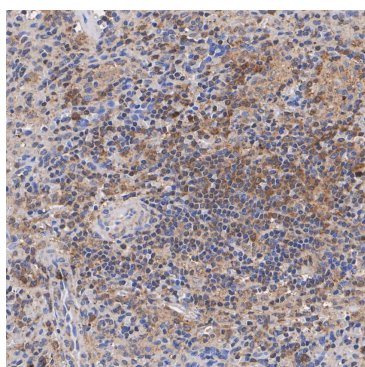


Fig2: Immunohistochemical analysis of paraffin-embedded human spleen tissue with Rabbit anti-MAP4K1 / HPK1 antibody (ER63713) at 1/200 dilution.

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 (ER63713) 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.

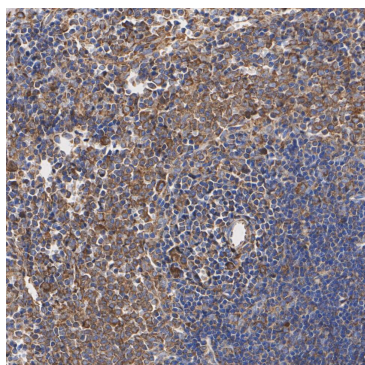


Fig3: Immunohistochemical analysis of paraffin-embedded rat spleen tissue with Rabbit anti-MAP4K1 / HPK1 antibody (ER63713) at 1/200 dilution.

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 (ER63713) 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. 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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