

Anti-MNK2 Antibody

HA500543



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 52 kDa

Description: MAP kinase-interacting serine/threonine-protein kinase 2 is an enzyme that in humans is encoded by the MKNK2 gene. MNK2 has been shown to interact with MAPK1 and Eukaryotic translation initiation factor 4 gamma. MNK2 has been identified as a therapeutic target for diabetes. Specifically, blocking MNK2 interaction with eIF4G has been shown to boost protein synthesis and promote beta cell regeneration.

Immunogen: Recombinant protein within human MNK2 aa 266-465 / 465.

Positive control: Jurkat cell lysate, HeLa cell lysate, SK-OV-3 cell lysate, HepG2 cell lysate, rat ovary tissue lysate, mouse testis tissue, rat skeletal muscle tissue.

Subcellular location: Nucleus, PML body; Cytoplasm.

Database links: SwissProt: Q9HBH9 Human | Q8CDB0 Mouse | Q5U2N4 Rat

Recommended Dilutions:

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

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.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

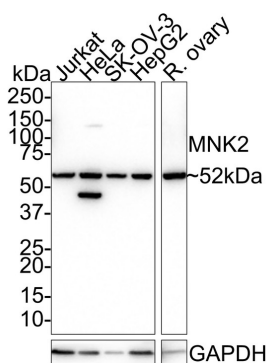


Fig1: Western blot analysis of MNK2 on different lysates with Rabbit anti-MNK2 antibody (HA500543) at 1/1,000 dilution.

Lane 1: Jurkat cell lysate (20 μ g/Lane)
 Lane 2: HeLa cell lysate (20 μ g/Lane)
 Lane 3: SK-OV-3 cell lysate (20 μ g/Lane)
 Lane 4: HepG2 cell lysate (20 μ g/Lane)
 Lane 5: Rat ovary tissue lysate (40 μ g/Lane)

Predicted band size: 52 kDa

Observed band size: 52 kDa

Exposure time: 3 minutes;

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 (HA500543) 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 1/50,000 dilution was used for 1 hour at room temperature.

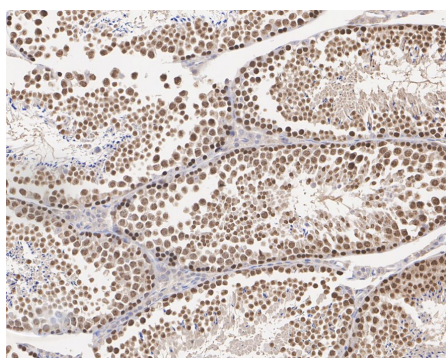


Fig2: Immunohistochemical analysis of paraffin-embedded mouse testis tissue with Rabbit anti-MNK2 antibody (HA500543) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 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 (HA500543) 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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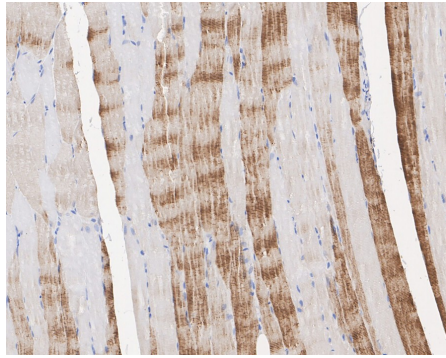


Fig3: Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue with Rabbit anti-MNK2 antibody (HA500543) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 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 (HA500543) at 1/1,000 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.

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

Background References

1. He Q et al. LINC00924-induced fatty acid metabolic reprogramming facilitates gastric cancer peritoneal metastasis via hnRNPC-regulated alternative splicing of Mnk2. *Cell Death Dis.* 2022 Nov
2. Chen BR et al. MNK2-eIF4E axis promotes cardiac repair in the infarcted mouse heart by activating cyclin D1. *J Mol Cell Cardiol.* 2022 May

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