

Anti-Phospho-MEK1 (T292) Antibody [SD2088]

ET1612-42



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 43 kDa
Clone number:	SD2088

Description: A family of protein kinases located upstream of the MAP kinases and responsible for their activation has been identified. The prototype member of this family, designated MAP kinase kinase, or MEK-1, specifically phosphorylates the MAP kinase regulatory threonine and tyrosine residues present in the Thr-Glu-Tyr motif of ERK. A second MEK family member, MEK-2, resembles MEK-1 in its substrate specificity. MEK-3 (or MKK-3) functions to activate p38 MAP kinase, and MEK-4 (also called SEK1 or MKK-4) activates both p38 and JNK MAP kinases. MEK-5 appears to specifically phosphorylate ERK 5, whereas MEK-6 phosphorylates p38 and p38b. MEK-7 (or MKK-7) phosphorylates and activates the JNK signal transduction pathway.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Thr292 of Human MEK1 aa 271-320 / 393.

Positive control: HeLa cell lysate, HeLa treated with 100ng/mL Nocodazole for 17 hours cell lysate, PC-12 cell lysate, PC-12 treated with 100ng/mL Nocodazole for 18 hours cell lysate, NIH/3T3 cell lysate, NIH/3T3 treated with 100ng/mL Nocodazole for 18 hours cell lysate, mouse brain tissue.

Subcellular location: Cytoplasm, Nucleus, Membrane.

Database links: SwissProt: Q02750 Human | P31938 Mouse | Q01986 Rat

Recommended Dilutions:

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

Storage Buffer: 1*TBS (pH7.4), 0.05% 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

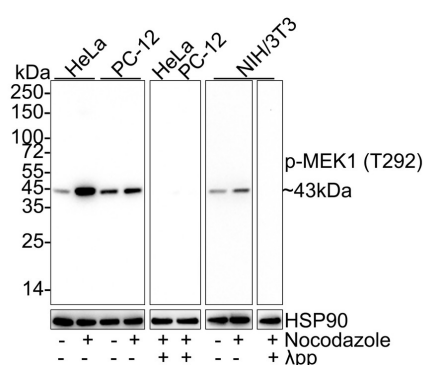


Fig1: Western blot analysis of Phospho-MEK1 (T292) on different lysates with Rabbit anti-Phospho-MEK1 (T292) antibody (ET1612-42) at 1/1,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: HeLa treated with 100ng/mL Nocodazole for 17 hours cell lysate

Lane 3: PC-12 cell lysate

Lane 4: PC-12 treated with 100ng/mL Nocodazole for 18 hours cell lysate

Lane 5: HeLa treated with 100ng/mL Nocodazole for 17 hours cell lysate, then the membrane treated with λ pp for 1 hour

Lane 6: PC-12 treated with 100ng/mL Nocodazole for 18 hours cell lysate, then the membrane treated with λ pp for 1 hour

Lane 7: NIH/3T3 cell lysate

Lane 8: NIH/3T3 treated with 100ng/mL Nocodazole for 18 hours cell lysate

Lane 9: NIH/3T3 treated with 100ng/mL Nocodazole for 18 hours cell lysate, then the membrane treated with λ pp for 1 hour

Lysates/proteins at 20 μ g/Lane.

Predicted band size: 43 kDa

Observed band size: 43 kDa

Exposure time: 3 minutes; 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 (ET1612-42) 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.

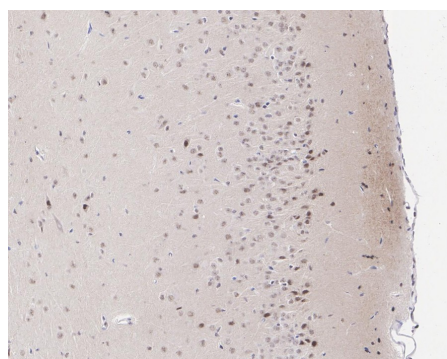


Fig2: Immunohistochemical analysis of paraffin-embedded mouse brain tissue with Rabbit anti-Phospho-MEK1 (T292) antibody (ET1612-42) at 1/200 dilution.

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 (ET1612-42) 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. Chou YY et al. Colocalization of different influenza viral RNA segments in the cytoplasm before viral budding as shown by single-molecule sensitivity FISH analysis. *PLoS Pathog* 9:e1003358 (2013).
2. Nath S et al. MUC1 induces drug resistance in pancreatic cancer cells via upregulation of multidrug resistance genes. *Oncogenesis* 2:e51 (2013).

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