

Anti-Phospho-p38 (T180 + Y182) Antibody

ER2001-52



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 41 kDa

Description: Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK14 is one of the four p38 MAPKs which play an important role in the cascades of cellular responses evoked by extracellular stimuli such as proinflammatory cytokines or physical stress leading to direct activation of transcription factors. Accordingly, p38 MAPKs phosphorylate a broad range of proteins and it has been estimated that they may have approximately 200 to 300 substrates each. Some of the targets are downstream kinases which are activated through phosphorylation and further phosphorylate additional targets.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Thr180 and Y182 of human P38.

Positive control: NIH/3T3 treated with 250ng/mL anisomycin for 30 minutes cell lysate, HeLa treated with 25µg/mL anisomycin for 30 minutes cell lysate, C6 treated with 25µg/mL anisomycin for 30 minutes cell lysate, PC-12 treated with UV for 1 hour cell lysate.

Subcellular location: Cytoplasm, Nucleus.

Database links: SwissProt: Q16539 Human | P47811 Mouse | P70618 Rat

Recommended Dilutions:
WB 1:500-1:2,000

Storage Buffer: 1*TBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

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Orders:0086-571-88062880

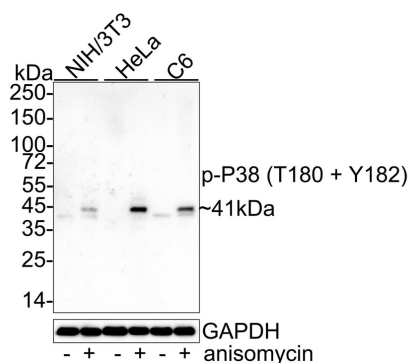
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of Phospho-p38 (T180 + Y182) on different lysates with Rabbit anti-Phospho-p38 (T180 + Y182) antibody (ER2001-52) at 1/1,000 dilution.



Lane 1: NIH/3T3 cell lysate

Lane 2: NIH/3T3 treated with 250ng/mL anisomycin for 30 minutes cell lysate

Lane 3: HeLa cell lysate

Lane 4: HeLa treated with 25µg/mL anisomycin for 30 minutes cell lysate

Lane 5: C6 cell lysate

Lane 6: C6 treated with 25µg/mL anisomycin for 30 minutes cell lysate

Lysates/proteins at 20 µg/Lane.

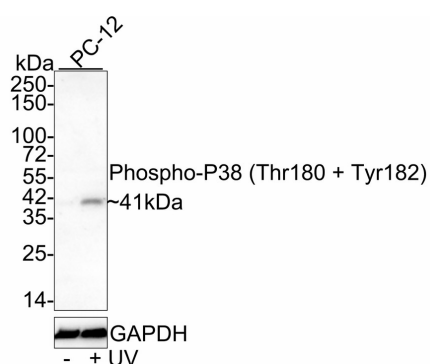
Predicted band size: 41 kDa

Observed band size: 41 kDa

Exposure time: 1 minute 29 seconds; ECL: K1802;
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 (ER2001-52) 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: Western blot analysis of Phospho-p38 (T180 + Y182) on different lysates with Rabbit anti-Phospho-p38 (T180 + Y182) antibody (ER2001-52) at 1/2,000 dilution.



Lane 1: PC-12 cell lysate (40 µg/Lane)

Lane 2: PC-12 treated with UV for 1 hour cell lysate (40 µg/Lane)

Predicted band size: 41 kDa

Observed band size: 41 kDa

Exposure time: 3 minutes; ECL: K1802;
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 (ER2001-52) 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.

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

Background References

1. Deak M. et. al. Mitogen- and stress-activated protein kinase-1 (MSK1) is directly activated by MAPK and SAPK2/p38, and may mediate activation of CREB. EMBO J. 17:4426-4441(1998).

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