Anti-p38 alpha/MAPK14 + p38 beta/MAPK11 + p38 gamma/MAPK12 Antibody [PSH03-60] - BSA and Azide free

HA750894

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Monkey
Applications:	WB
Molecular Wt:	Predicted band size: 42 kDa
Clone number:	PSH03-60

Description: A mitogen-activated protein kinase (MAPK or MAP kinase) is a type of protein kinase that is specific to the amino acids serine and threonine (i.e., a serine/threonine-specific protein kinase). MAPKs are involved in directing cellular responses to a diverse array of stimuli, such as mitogens, osmotic stress, heat shock and proinflammatory cytokines. They regulate cell functions including proliferation, gene expression, differentiation, mitosis, cell survival, and apoptosis. MAP kinases are found in eukaryotes only, but they are fairly diverse and encountered in all animals, fungi and plants, and even in an array of unicellular eukaryotes. MAPKs belong to the CMGC (CDK/MAPK/GSK3/CLK) kinase group. The closest relatives of MAPKs are the cyclin-dependent kinases (CDKs).

Immunogen: Recombinant protein within human MAPK12 aa 1-367 / 367.

Positive control: 293T cell lysate, HeLa cell lysate, K-562 cell lysate, MDA-MB-231 cell lysate, COS-1 cell lysate, Neuro-2a cell lysate, PC-12 cell lysate, mouse skeletal muscle tissue lysate, rat skeletal muscle tissue lysate, rat heart tissue lysate.

Subcellular location: Cytoplasm, Nucleus, Mitochondrion.

Database links: SwissProt: Q16539 Human | Q15759 Human | P53778 Human | P47811 Mouse | Q9WUI1 Mouse | O08911 Mouse | P70618 Rat | D4A3U7 Rat | Q63538 Rat

Recommended Dilutions:

WB	1:2,000

Storage Buffer: PBS (pH7.4).

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

Purity: Protein A affinity purified.

Images

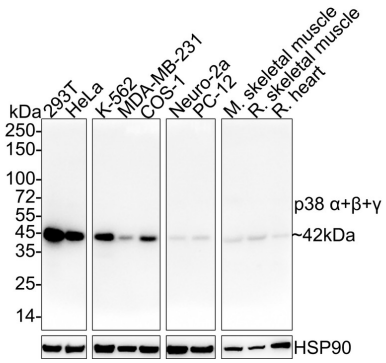

Fig1: Western blot analysis of p38 alpha/MAPK14 + p38 beta/MAPK11 + p38 gamma/MAPK12 on different lysates with Rabbit anti-p38 alpha/MAPK14 + p38 beta/MAPK11 + p38 gamma/MAPK12 antibody (HA750894) at 1/2,000 dilution.

Lane 1: 293T cell lysate (30 µg/Lane)
Lane 2: HeLa cell lysate (30 µg/Lane)
Lane 3: K-562 cell lysate (30 µg/Lane)
Lane 4: MDA-MB-231 cell lysate (30 µg/Lane)
Lane 5: COS-1 cell lysate (30 µg/Lane)
Lane 6: Neuro-2a cell lysate (30 µg/Lane)
Lane 7: PC-12 cell lysate (30 µg/Lane)
Lane 8: Mouse skeletal muscle tissue lysate (30 µg/Lane)
Lane 9: Rat skeletal muscle tissue lysate (30 µg/Lane)
Lane 10: Rat heart tissue lysate (30 µg/Lane)

Predicted band size: 42 kDa
Observed band size: 42 kDa

Exposure time: 40 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 (HA750894) at 1/2,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

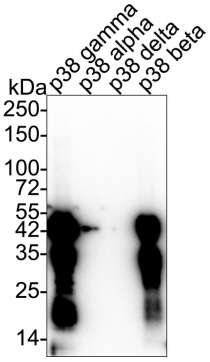

Fig2: Western blot analysis of p38 alpha/MAPK14 + p38 beta/MAPK11 + p38 gamma/MAPK12 with Rabbit anti-p38 alpha/MAPK14 + p38 beta/MAPK11 + p38 gamma/MAPK12 antibody (HA750894) at 1/2,000 dilution.

Lane 1: Human p38 gamma recombinant protein, 30ng/Lane
Lane 2: Human p38 alpha recombinant protein, 50ng/Lane
Lane 3: Human p38 delta recombinant protein, 50ng/Lane
Lane 4: Human p38 beta recombinant protein, 50ng/Lane

Exposure time: 43 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 (HA750894) at 1/2,000 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.

Background References

1. Wang J et al. Pan-cancer analysis supports MAPK12 as a potential prognostic and immunotherapeutic target in multiple tumor types, including in THCA. Oncol Lett. 2022 Oct
2. Yang R et al. Prolactin Regulates Ovine Ovarian Granulosa Cell Apoptosis by Affecting the Expression of MAPK12 Gene. Int J Mol Sci. 2023 Jun