

Anti-Phospho-p38 MAPK (Thr180, Tyr182) Polyclonal Antibody 2

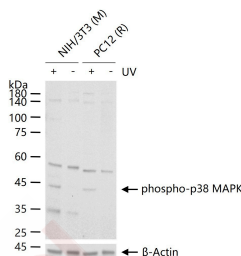
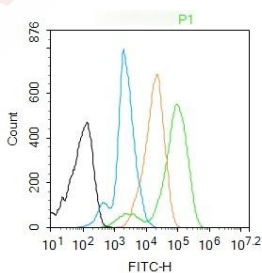
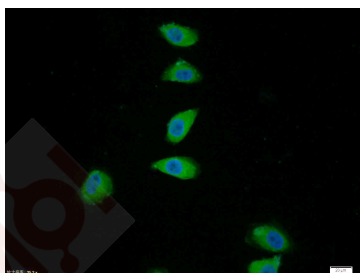
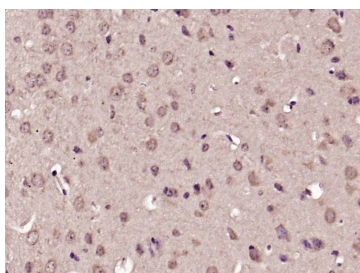
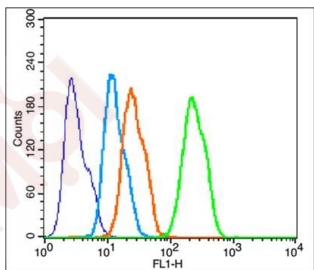
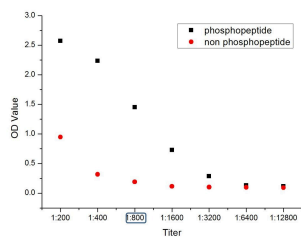
Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Chicken,Dog,Pig,Horse,Rabbit)
Molecular Weight:	Theoretical: 41 kDa. Actual: 42 kDa.
Purification:	Protein A purified

Applications

1. phosphopeptide
non phosphopeptide
2. Blank control (blue): HepG2 (fixed with 2% paraformaldehyde for 10 min at 37°C). Primary Antibody: Rabbit Anti-phospho-p38 MAPK (Thr180 + Tyr182) antibody (TMAB-01473,Green); Dilution: 1 µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG (orange),used under the same conditions; Secondary Antibody: Goat anti-rabbit IgG-FITC (white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.
3. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-p38 MAPK (Thr180 + Tyr182)) Polyclonal Antibody, Unconjugated (TMAB-01473) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
4. Tissue/cell: Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (phospho-p38 MAPK (Thr180 + Tyr182)) polyclonal Antibody, Unconjugated (TMAB-01473) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.
5. Blank control: Raw264.7. Primary Antibody (green line): Rabbit Anti-phospho-p38 MAPK (Thr180 + Tyr182) antibody (TMAB-01473)
Dilution: 1 µg/10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG.
Secondary Antibody: Goat anti-rabbit IgG-AF488
Dilution: 1 µg/test.
- Protocol
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.
6. NIH/3T3 (M) cells were treated with UV for 30 min,PC12 (R) cells were treated with UV for 30 min, 25 µg total protein per Lane of cell lysates probed with phospho-p38 MAPK (Thr180 + Tyr182) polyclonal antibody, unconjugated (TMAB-01473) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.

Verified Activity:



Application: ELISA,FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB

Recommended ELISA=1:5000-10000; FCM=1 µg/Test; ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated Synthesised phosphopeptide: human p38 MAPK around the phosphorylation site of Thr180/Tyr182

Antigen Species: Human

Gene ID: 1432

Uniprot ID: Q16539

Synonyms: p-p38 MAPK (T180, Y182);CSBP;EXIP;PRKM14;p38 MAPK (p-T180, Y182);RK;p38 MAPK (p-Thr180, Tyr182);SAPK2A;CSPB1;Csbp2;p-p38 MAPK (Thr180, Tyr182);p38ALPHA;PRKM15;Mxi2;p38;Csbp1;Phospho-p38 MAPK (T180, Y182)

Biology Area: MAPK pathway,TLR Signaling,Other Cell Signaling Kits,MAPK Pathway

Research Background

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases(MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

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