bs-2210R **[Primary Antibody]**

phospho-p38 MAPK (Thr180 + Tyr182) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1432 **SWISS:** Q16539

Target: phospho-p38 MAPK (Thr180 + Tyr182)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human p38 MAPK around the phosphorylation site of Thr180/Tyr182: EM(p-T)G(p-Y)VA.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

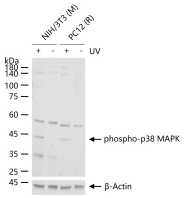
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg /test)
ICC/IF (1:100)
ELISA (1:5000-10000)

Reactivity: Mouse, Rat
(predicted: Human, Rabbit, Pig, Chicken, Dog, Horse)

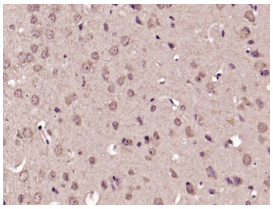
Predicted MW.: 41 kDa

Subcellular Location: Cytoplasm ,Nucleus

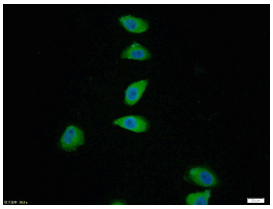
VALIDATION IMAGES



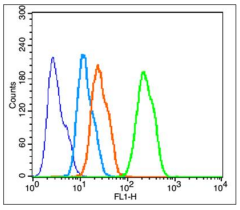
NIH/3T3 (M) cells were treated with UV for 30 min,PC12 (R) cells were treated with UV for 30 min, 25 μg total protein per lane of cell lysates (see on figure) probed with phospho-p38 MAPK (Thr180 + Tyr182) polyclonal antibody, unconjugated (bs-2210R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



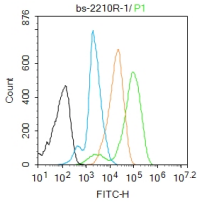
Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-p38 MAPK (Thr180 + Tyr182)) Polyclonal Antibody, Unconjugated (bs-2210R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (phospho-p38 MAPK (Thr180 + Tyr182)) polyclonal Antibody, Unconjugated (bs-2210R) 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, C02-04002) was used to stain the cell nuclei.



Blank control(blue): HepG2(fixed with 2% paraformaldehyde for 10 min at 37°C). Primary Antibody:Rabbit Anti-phospho-p38 MAPK (Thr180 + Tyr182)antibody (bs-2210R,Green); Dilution: 1μg 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.



Blank control: Raw264.7. Primary Antibody (green line): Rabbit Anti-phospho-p38 MAPK (Thr180 + Tyr182) antibody (bs-2210R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min 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. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=9.473]** Shuting Wei. et al. Particle matters induce airway epithelial barrier dysfunction in vivo and in vitro: from a more realistic inhalation scenario. ENVIRON SCI-NANO. 2022 Jun;: WB ;Human. 10.1039/D2EN00390B
- **[IF=9.381]** Zhaomin Zheng. et al. New insight into the structure-dependent two-way immunomodulatory effects of water-soluble yeast β-glucan in macrophages. CARBOHYD POLYM. 2022 Sep;291:119569 WB ;Mouse. 35698336
- **[IF=8.109]** Li X et al. Disseminated Melanoma Cells Transdifferentiate into Endothelial Cells in Intravascular Niches at Metastatic Sites. Cell Rep. 2020 Jun 16;31(11):107765. IF ;Mouse. 32553158
- **[IF=7.963]** Meiqiong Wu. et al. Suppression of NADPH oxidase 4 inhibits PM2.5-induced cardiac fibrosis through ROS-P38 MAPK pathway. SCI TOTAL ENVIRON. 2022 Apr;:155558 WB ;Mouse,Rat. 35504386
- **[IF=7.238]** Chinthalapally V. Rao. et al. GSK3‐ARC/Arg3.1 and GSK3‐Wnt signaling axes trigger amyloid‐β accumulation and neuroinflammation in middle‐aged Shugoshin 1 mice. Aging Cell. 2020 Oct;19(10):e13221 IHC ;Mouse. 32857910