bs-5477R **[Primary Antibody]**

phospho-p38 MAPK (Tyr323) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1432 **SWISS:** Q16539

Target: p38 MAPK (Tyr323)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human MAPK14 around the phosphorylation site of Tyr323: DP(p-Y)DQ.

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.

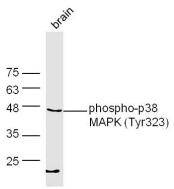
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

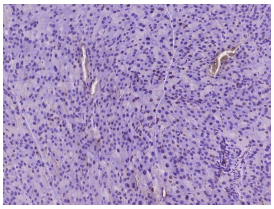
Predicted MW.: 41 kDa

Subcellular Location: Cytoplasm ,Nucleus

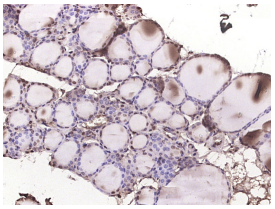
VALIDATION IMAGES



Sample: Brain (Mouse) Lysate at 40 ug Primary: Anti-phospho-p38 MAPK (Tyr323) (bs-5477R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 41 kD Observed band size: 45 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse pancreas); 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 (Tyr323)) Polyclonal Antibody, Unconjugated (bs-5477R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse esophagus); 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 (Tyr323)) Polyclonal Antibody, Unconjugated (bs-5477R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=4.868]** Wang G et al. Protective Effect of Methane-Rich Saline on Acetic Acid-Induced Ulcerative Colitis via Blockingthe TLR4/NF-κB/MAPK Pathway and Promoting IL-10/JAK1/STAT3-Mediated Anti-

inflammatory Response. Oxid Med Cell Longev. 2019 Apr 28;2019:7850324. WB ;Mouse. 31182999

- **[IF=4.658]** Zhang J et al. Down‐regulation of Suv39h1 attenuates neointima formation after carotid artery injury in diabetic rats. J Cell Mol Med. 2019 Nov 17. WB ;Rat. 31736204
- **[IF=4.55]** Ning, Chong, et al. "Chicory inulin ameliorates type 2 diabetes mellitus and suppresses JNK and MAPK pathways in vivo and in vitro." Molecular Nutrition & Food Research (2017). WB ;="Rat". 28105758
- **[IF=4.42]** Yu, Haijie, et al. "Gypenoside Protects Cardiomyocytes against Ischemia-Reperfusion Injury via the Inhibition of Mitogen-Activated Protein Kinase Mediated Nuclear Factor Kappa B Pathway In Vitro and In Vivo." Frontiers in Pharmacology 7 (2016). ELISA ;="Rat". 27313532
- **[IF=2.55]** Zhao, Haiyan, et al. "Inhibition of endocan attenuates monocrotaline-induced connective tissue disease related pulmonary arterial hypertension." International Immunopharmacology 42 (2017): 115-121. WB ;="Rat". 27912147