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Anti-Phospho-p38 MAPK (Thr180,Tyr182) MAPK14 Antibody

Catalog Number: P00176

About MAPK14

The three Mitogen-Activated Protein Kinases (MAPKs) are evolutionarily conserved protein kinases that control a vast array of cellular processes. p38 MAPK is one of these kinases and it is activated by both inflammatory cytokines and by stress (Johnson and Lapadat, 2002; Shi and Gaestel, 2002). The p38 MAPK is thought to be particularly important in diseases like asthma and autoimmunity but it also plays important roles in the stress response of the nervous system (Philip and Armstead, 2003; Ying et al., 2002). Like the other MAPKs, p38 is activated by a dual specificity kinase that phosphorylates Thr-180 and Tyr-182 (Lin et al., 1995).

Overview

Product Name	Anti-Phospho-p38 MAPK (Thr180,Tyr182) MAPK14 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Phospho-p38 MAPK (Thr180, Tyr182) MAPK14 Antibody (Catalog # P00176). Tested in WB, IHC applications. This antibody reacts with Human, Mouse.
Application	IHC, WB
Clonality	Polyclonal JE44-80
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	P70618

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr180/Tyr182 of rat p38/MAPK, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Rat.
Predicted Reactive Species	Bovine, Canine, Chicken, Primate, Rat, Zebrafish
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.

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Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:1000 IHC: 1:250

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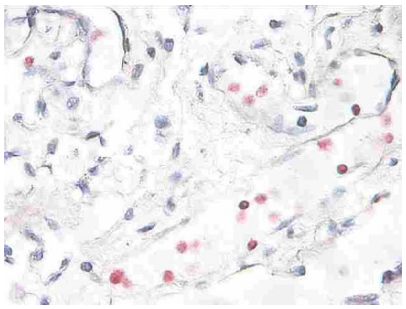
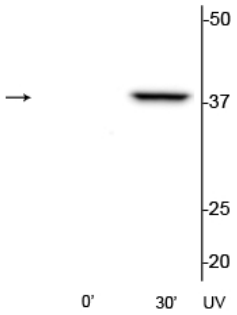
Anti-Phospho-p38 MAPK (Thr180,Tyr182) MAPK14 Antibody (P00176) Images



Immunostaining of human breast cancer tissue showing p38 when phosphorylated at Thr^{180}/Tyr^{182}.



Western blot of HeLa cell lysates that had been treated with UV (~254nm) for 0' or 30' showing the specific immunolabeling of the ~39 kDa p38 MAPK protein phosphorylated at Thr^{180}/Tyr^{182}.

6 Publications Citing This Product

1. PubMed ID: PMID:31934188, Hawthorne leaf flavonoids prevent oxidative stress injury of renal tissues in rats with diabetic kidney disease by regulating the p38 MAPK signaling pathway

2. PubMed ID: 10.4238/gmr.15038419, High levels of glucose promote the activation of hepatic stellate cells via the p38-mitogen-activated protein kinase signal pathway.

3. PubMed ID: 10.1016/j.jep.2017.03.012, The vascular protective effects of Anoectochilus roxburghii polysaccharose under high glucose conditions

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