

P38 MAPK(Phospho-Thr180) Antibody

Catalog No: #11252

Package Size: #11252-1 50ul #11252-2 100ul

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Description

Product Name	P38 MAPK(Phospho-Thr180) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of P38 MAPK only when phosphorylated at Threonine 180.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 180 (E-M-T(p)-G-Y) derived from Human P38MAPK.
Conjugates	Unconjugated
Target Name	P38 MAPK
Modification	Phospho
Other Names	MAPK2; MAPKAPK-2; MAPKAPK2
Accession No.	Swiss-Prot: Q16539NCBI Protein: NP_001306.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

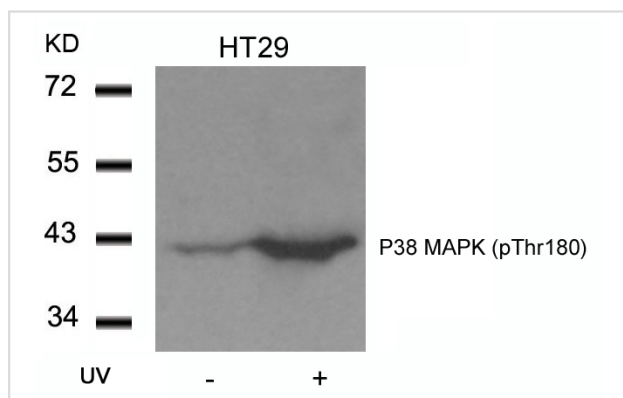
Application Details

Predicted MW: 43kd

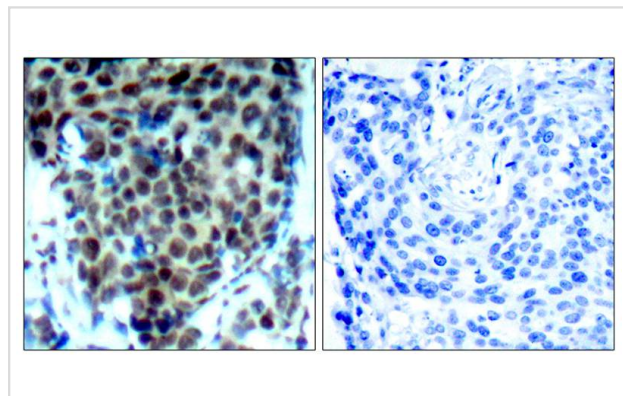
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

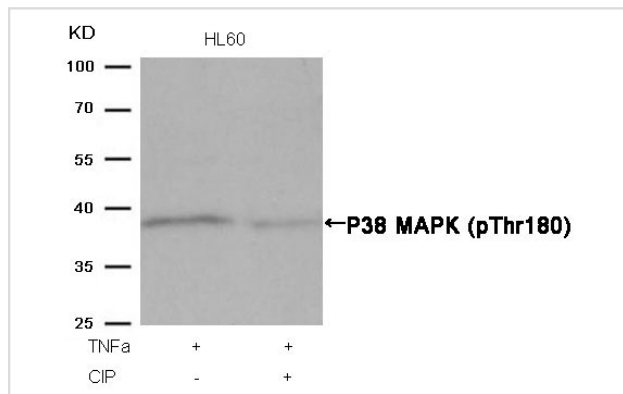
Images



Western blot analysis of extracts from HT29 cells untreated or treated with UV using P38 MAPK(Phospho-Thr180) Antibody #11252.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using P38 MAPK(Phospho-Thr180) Antibody #11252(left) or the same antibody preincubated with blocking peptide(right).



Western blot analysis of extracts from HL60 cells, treated with TNFa or calf intestinal phosphatase (CIP), using P38 MAPK (Phospho-Thr180) Antibody #11252.

Background

Responds to activation by environmental stress, pro-inflammatory cytokines and lipopolysaccharide (LPS) by phosphorylating a number of transcription factors, such as ELK1 and ATF2 and several downstream kinases, such as MAPKAPK2 and MAPKAPK5. Plays a critical role in the production of some cytokines, for example IL-6. May play a role in stabilization of EPO mRNA during hypoxic stress. Isoform Mxi2 activation is stimulated by mitogens and oxidative stress and only poorly phosphorylates ELK1 and ATF2. Isoform Exip may play a role in the early onset of apoptosis.

Kim JE, et al. (2005) J Proteome Res Jul-Aug; 4(4): 1339-1346

Meng F, et al. (2005) Am J Physiol Cell Physiol May 25

Jin ZH, et al. (2005) Oncogene Mar 17; 24(12): 1973-1981

Published Papers

Diansan Su, Yang Gu, Zhenhong Wang et al., Lidocaine Attenuates Proinflammatory Cytokine Production Induced by Extracellular Adenosine Triphosphate in Cultured Rat Microglia. , Anesthesia & Analgesia, 111 (3) 768-774(2010)

[PMID:20686009](#)

et al., A solute carrier family 22 member 3 variant rs3088442 G to A associated with coronary heart disease inhibits lipopolysaccharide-induced inflammatory response. In J Biol Chem on 2015 Feb 27 by Lu Li, Meian He, et al.. PMID:25561729, , (2015)

PMID:25561729

Jing Guan;Xin Tong;Yi Zhang;Fan Xu;Yuxin Zhang;Xiurui Liang;Jiaqi Jin;Hongyan Jing;Liuxian Guo;Xinrui Ni;Jihua Fu et al., Nephrotoxicity induced by cisplatin is primarily due to the activation of the 5-hydroxytryptamine degradation system in proximal renal tubules, , (2021)

PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.