

Mouse p38alpha MAP Kinase Monoclonal Antibody | anti-MAPK14 antibody

p38alpha MAP Kinase (C-terminal) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71690	Mouse	Human, Rat, Mouse	ELISA, Immunocytochemistry, Western Blot

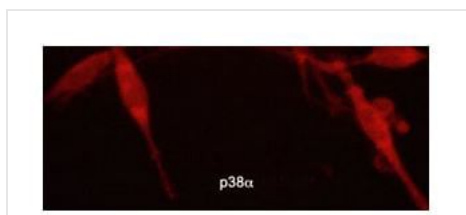
PRODUCT SYNONYMS

p38alpha MAP Kinase; Monoclonal Antibody; p38alpha MAP Kinase (C-terminal) Antibody; p38alpha MAP Kinase (C-terminal); p 38 M548; anti-MAPK14 antibody

PRODUCT SPECIFICATIONS

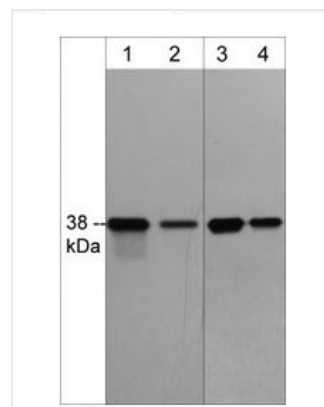
Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M548
Specificity	This antibody detects a 38kDa* protein corresponding to the apparent molecular mass of p38alpha on SDS-PAGE immunoblots of human A431 and rat A7r5 cells.
Purity/Purification	Protein G chromatography
Form/Format	Mouse monoclonal purified with protein G chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-MAPK14 antibody	ELISA, ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Clone M548 was generated from a recombinant protein corresponding to amino acid residues in the C-terminal region of human p38alpha. This sequence is identical in rat and mouse p38alpha.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of p38alpha in aldehyde fixed and NP-40 permeabilized human NCI-H446 lung carcinoma cells. The cells were labeled with mouse monoclonal anti-p38alpha (PM5481). The antibody was detected using goat anti-mouse DyLight 594.



WB (Western Blot)

Western blot analysis of human A431 cells (lanes 1 & 2) and rat A7r5 cells (lanes 3 & 4). The blot was probed with mouse monoclonal anti-p38alpha (C-terminal) clone M548 at a dilution of 1:250 (lanes 1 & 3) or 1:1000 (lanes 2 & 4).

ADDITIONAL INFORMATION

Related Product Information for anti-MAPK14 antibody	p38 MAP kinase (MAPK), also called RK, CSBP, and SAPK2a, is the mammalian orthologue of the yeast HOG kinase. This family of kinases participates in signaling cascades that control cellular responses to cytokines and stress. Four isoforms of p38 MAPK (alpha, beta, gamma, delta) have been identified. Similar to the SAPK/JNK pathway, p38 MAPK is activated by a variety of cellular stresses including osmotic shock, inflammatory cytokines, lipopolysaccharides, UV light, and growth factors. MKK3 and SEK activate p38 MAPK by dual phosphorylation at threonine 180 and tyrosine 182. Activated p38 MAPK has been shown to phosphorylate and activate MAPKAP kinase 2 and to phosphorylate the transcription factors ATF-2, Max and MEF2.
References	Jirmanova, L. et al. (2009) Blood 113(10):2229. Salvador, J.M. et al. (2005) Nat Immunol. 6(4):390. Han, J. et al. (1994) Science 265:808. Lee, J. C. et al. (1994) Nature 372:739.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503069
NCBI GeneID	1432
NCBI Accession #	NP_001306.1
NCBI GenBank Nucleotide #	NM_001315.2
UniProt Accession #	Q16539 ; O60776 ; Q13083 ; Q14084 ; Q8TDX0 ; A6ZJ92 ; A8K6P4 ; B0LPH0
Molecular Weight	41,293 Da
NCBI Official Full Name	mitogen-activated protein kinase 14 isoform 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase 14
NCBI Official Symbol	MAPK14
NCBI Official Synonym Symbols	RK; p38; CSBP; EXIP; Mxi2; CSBP1; CSBP2; CSPB1; PRKM14; PRKM15; SAPK2A; p38ALPHA
NCBI Protein Information	mitogen-activated protein kinase 14; MAP kinase 14; p38alpha Exip; p38 MAP kinase; MAP kinase Mxi2; MAP kinase p38 alpha; CSAID-binding protein; Csaids binding protein; MAX-interacting protein 2; stress-activated protein kinase 2A; p38 mitogen activated p
UniProt Protein Name	Mitogen-activated protein kinase 14
UniProt Gene Name	MAPK14
UniProt Synonym Gene Names	CSBP; CSBP1; CSBP2; CSPB1; MXI2; SAPK2A; MAP kinase 14; MAPK 14; CSAID-binding protein; CSBP; MAP kinase p38 alpha; SAPK2a
UniProt Entry Name	MK14_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/p38alpha-map-kinase-antibody-clone-m548-immunocytochemistry-western-blot-elisa/71690>