

Phospho-MAPK14(T180) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP3642a

Product Information

Application	WB, DB, E
Primary Accession	Q16539
Other Accession	P70618 , P47811 , Q9DGE2
Reactivity	Human, Mouse, Rat
Predicted	Mouse, Rat, Zebrafish
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15973

Additional Information

Other Names	Mitogen-activated protein kinase 14, MAP kinase 14, MAPK 14, Cytokine suppressive anti-inflammatory drug-binding protein, CSAID-binding protein, CSBP, MAP kinase MXI2, MAX-interacting protein 2, Mitogen-activated protein kinase p38 alpha, MAP kinase p38 alpha, Stress-activated protein kinase 2a, SAPK2a, MAPK14, CSBP, CSBP1, CSBP2, CSPB1, MXI2, SAPK2A
Target/Specificity	This MAPK14 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T180 of human MAPK14.
Dilution	WB~~1:500 DB~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Phospho-MAPK14(T180) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

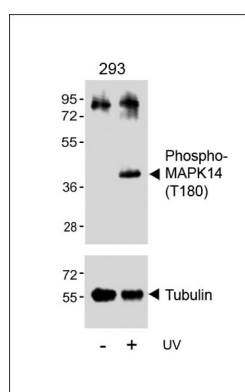
MAPK14 is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation,

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.

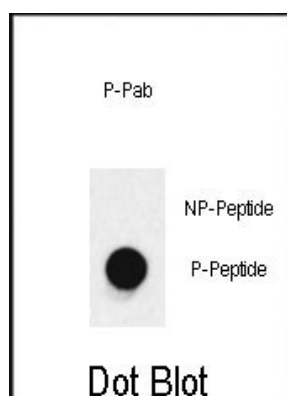
References

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Dean, J.L., et al., J. Biol. Chem. 278(41):39470-39476 (2003).
Sun, A., et al., Exp. Neurol. 183(2):394-405 (2003).
Yustein, J.T., et al., Oncogene 22(40):6129-6141 (2003).
Frevel, M.A., et al., Mol. Cell. Biol. 23(2):425-436 (2003).

Images



Western blot analysis of lysates from 293 cell line, untreated or treated with UV(2h), using Phospho-MAPK14(T180) Antibody(upper) or Tubulin (lower).



Dot blot analysis of anti-Phospho-p38 MAPK-T180 Antibody (Cat.# AP3642a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.