

Rabbit MAPK14 Polyclonal Antibody | anti-MAPK14 antibody

MAPK14 Antibody (Center T180/Y182)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286092	Rabbit	Human (Predicted Reactivity: Zebrafish, Mouse, Rat)	Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

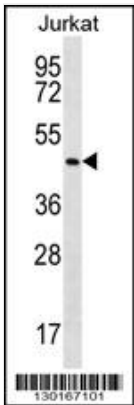
MAPK14; Polyclonal Antibody; MAPK14 Antibody (Center T180/Y182); Mitogen-activated protein kinase 14; MAP kinase 14; MAPK 14; Cytokine suppressive anti-inflammatory drug-binding protein; CSAID-binding protein; CSBP; MAP kinase MXI2; MAX-interacting protein 2; Mitogen-activated protein kinase p38 alpha; MAP kinase p38 alpha; Stress-activated protein kinase 2a; SAPK2a; CSBP1; CSBP2; CSPB1; MXI2; SAPK2A; anti-MAPK14 antibody

PRODUCT SPECIFICATIONS

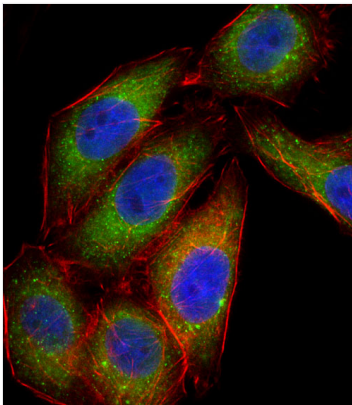
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Zebrafish, Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MAPK14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 158-192 amino acids from the Central region of human MAPK14.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.38 (varies by lot)
Sequence Positions	158-192
Sequence Length	360
Applicable Applications for anti-MAPK14 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemistry)
MAPK14 Antibody (Center T180/Y182) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MAPK14 Antibody (Center T180/Y182) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
MAPK14 Antibody (Center T180/Y182) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the MAPK14 antibody detected the MAPK14 protein (arrow).



IF (Immunofluorescence)
Fluorescent confocal image of A549 cell stained with MAPK14 Antibody (Center T180/Y182). A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with MAPK14 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). MAPK14 immunoreactivity is localized to Vesicles significantly and Cytoplasm weakly.

ADDITIONAL INFORMATION

Related Product Information for anti-MAPK14 antibody	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.
Product Categories/Family for anti-MAPK14 antibody	Cancer; Cell Biology; Immunology; Neuroscience; Signal Transduction; Phospho Antibodies
References	Pan, W.W., et al. J. Biol. Chem. 285(45):34348-34354(2010) Marchant, D., et al. J. Virol. 84(21):11359-11373(2010) Arana-Argaez, V.E., et al. J. Biol. Chem. 285(43):32824-32833(2010) Ferreiro, I., et al. J. Biol. Chem. 285(41):31819-31828(2010) Tang, P., et al. Zhonghua Gan Zang Bing Za Zhi 18(8):604-608(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503069
NCBI GeneID	1432
NCBI Accession #	NP_001306.1; NP_620581.1; NP_620582.1; NP_620583.1
NCBI GenBank Nucleotide #	NM_001315.2
UniProt Accession #	Q16539; O60776; Q13083; Q14084; Q8TDX0; A6ZJ92; A8K6P4; B0LPH0; B5TY32
Molecular Weight	41293
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
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/polyclonal/mapk14-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/286092>