Datasheet for ABIN671241

anti-MAPK14 antibody (AA 141-240)

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Overview

Quantity:	100 µL
Target:	MAPK14
Binding Specificity:	AA 141-240
Reactivity:	Human, Mouse, Rat, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAPK14 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human P38MAPK
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Dog
Purification:	Purified by Protein A.

Target Details

Target:	MAPK14

Target Details

Alternative Name:	P38 MAPK (MAPK14 Products)
Background:	Synonyms: RK, p38, CSBP, EXIP, Mxi2, CSBP1, CSBP2, CSPB1, PRKM14, PRKM15, SAPK2A, p38ALPHA, Mitogen-activated protein kinase 14, MAP kinase 14, MAPK 14, Cytokine suppressive anti-inflammatory drug-binding protein, CSAID-binding protein, MAP kinase MXI2, MAX-interacting protein 2, Mitogen-activated protein kinase p38 alpha, MAP kinase p38 alpha, Stress-activated protein kinase 2a, MAPK14 Background: 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. [provided by RefSeq, Jul 2008]
Gene ID:	1432
UniProt:	Q16539
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Regulation of Muscle Cell Differentiation, Regulation of Cell Size, Hepatitis C, Toll-Like Receptors Cascades, Autophagy, Thromboxane A2 Receptor Signaling, BCR Signaling, S100 Proteins

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Ning, Wang, Gao, Mu, Wang, Liu, Zhu, Meng: "Chicory inulin ameliorates type 2 diabetes mellitus and suppresses JNK and MAPK pathways in vivo and in vitro." in: **Molecular nutrition & food research**, (2017) (PubMed).

Liu, Zhang, Han, Wang, Liu, Zhang, Zhou, Xiang: "Inhibition of BTK protects lungs from trauma-hemorrhagic shock-induced injury in rats." in: **Molecular medicine reports**, Vol. 16, Issue 1, pp. 192-200, (2017) (PubMed).

Li, Cheng, Nie, Lai, Hu, Luo, Li, Li et al.: "Selenoprotein K Mediates the Proliferation, Migration, and Invasion of Human Choriocarcinoma Cells by Negatively Regulating Human Chorionic Gonadotropin Expression via ERK, p38 MAPK, and Akt ..." in: **Biological trace element research**, (2017) (PubMed).

Li, Wang, Zhou, Zhang, Le, He: "Downregulation of BRAF-activated non-coding RNA suppresses the proliferation, migration and invasion, and induces apoptosis of hepatocellular carcinoma cells." in: **Oncology letters**, Vol. 14, Issue 4, pp. 4751-4757, (2017) (PubMed).

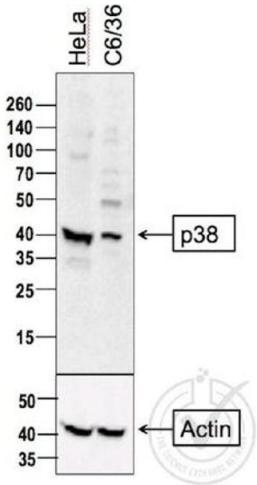
Zhao, Ding, Liu, Yin, Zhang, Ma: "Unfractionated heparin protects the protein C system against

Publications

lipopolysaccharide-induced damage in vivo and in vitro." in: **Experimental and therapeutic medicine**, Vol. 14, Issue 6, pp. 5515-5522, (2017) (PubMed).

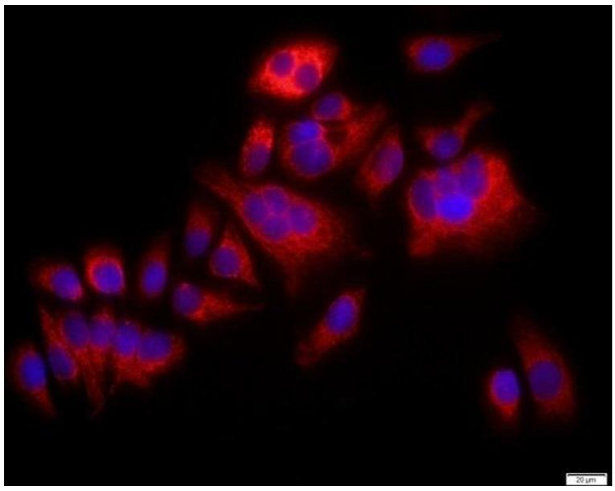
There are more publications referencing this product on: Product page

Images



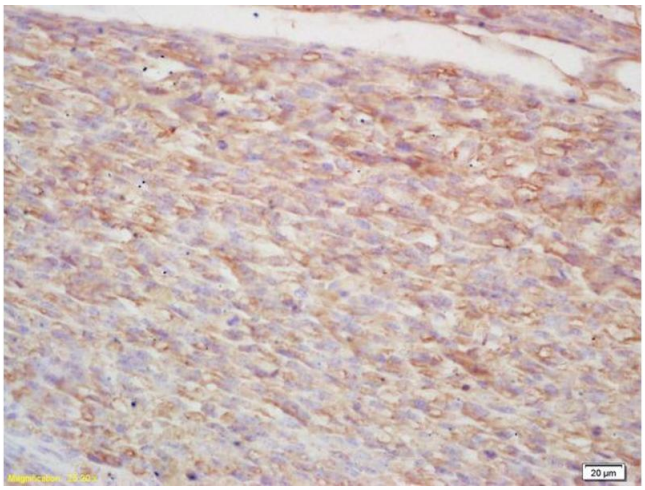
Western Blotting

Image 1. Independently Validated Antibody, image provided by Science Exchange, badge number 029806: L1 HeLa cell lysate, L2 C6/36 cell lysates probed with Anti-P38 MAPK Polyclonal Antibody, Unconjugated at 1:500 overnight at 4˚C. Followed by conjugation to secondary antibody at 1:100000 for 90 min at 37˚C. Predicted band 41kDa. A strong band was observed in the positive control sample at the correct molecular weight.



Immunofluorescence (Cultured Cells)

Image 2. MCF-7 cells were stained with p38 MAPK Polyclonal Antibody, Unconjugated at 1:500 in PBS and incubated for two hours at 37°C followed by Goat Anti-Rabbit IgG (H+L) Cy3 conjugated secondary antibody. DAPI staining of the nucleus was done and then detected.



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded mouse embryo labeled with Rabbit Anti p38MAPK/MAPK14/p38Alpha Polyclonal Antibody, Unconjugated (ABIN671241) at 1:200 followed by conjugation to the secondary antibody and DAB staining

Images

Please check the product details page for more images. Overall 4 images are available for ABIN671241.

