

# Immunotag™ p38 MAPK mouse mAb

Antibody Specification	
Catalog No.	ITM1508
Product Description	Immunotag™ p38 MAPK mouse mAb
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	p38 MAP-K
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB
Recommended Dilution	wb dilution 1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat,Monkey
Host Species	Mouse
Immunogen	Purified recombinant human P38 MAPK Pprotein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of P38 MAP and does not cross-react with related proteins.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	mapk14
Accession No.	Q16539 P47811

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Alternate Names	CSAID Binding Protein 1; CSAID binding protein; CSAID-binding protein; Csaids binding protein; CSBP 1; CSBP 2; CSBP; CSBP1; CSBP2; CSPB 1; CSPB1; Cytokine suppressive anti inflammatory drug binding protein; Cytokine suppressive anti-inflammatory drug-binding protein; EXIP; MAP kinase 14; MAP kinase MXI2; MAP kinase p38 alpha; MAPK 14; MAPK14; MAX interacting protein 2; MAX-interacting protein 2; Mitogen Activated Protein Kinase 14; Mitogen activated protein kinase p38 alpha; Mitogen-activated protein kinase 14; Mitogen-activated protein kinase p38 alpha; MK14_HUMAN; Mxi 2; Mxi2; p38 ALPHA; p38; p38 MAP kinase; p38 MAPK; p38 mitogen activated protein kinase; p38ALPHA; p38alpha Exip; PRKM14; PRKM15; RK; SAPK 2A; SAPK2A; Stress Activated Protein Kinase 2A.
Description	mitogen-activated protein kinase 14(MAPK14) Homo sapiens 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 d
Cell Pathway/ Category	MAPK_ERK_Growth,MAPK_G_Protein,VEGF,Toll_Like,NOD-like receptor,RIG-I-like receptor,T_Cell_Receptor,Fc epsilon RI,Leukocyte transendothelial migration,Neurotrophin,GnRH,Progesterone-mediated oocyte maturation,Amyotrophic lateral sclerosis (ALS),Epithelial cell signaling in Helicobacter pylori infection,
Protein Expression	B-cell,Epithelium,Hepatoma,Liver,Peripheral blood,Placenta,Platelet
Subcellular Localization	spindle pole,intracellular,nucleus,nucleoplasm,cytoplasm,mitochondrion,cytosol,extracellular exosome,

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Protein Function	<p>catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,domain:The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.,enzyme regulation:Activated by threonine and tyrosine phosphorylation by either of two dual specificity kinases, MAP2K3 or MAP2K6, and potentially also MAP2K4. Inhibited by dual specificity phosphatases, such as DUSP1. Specifically inhibited by the binding of pyridinyl-imidazole compounds, which are cytokine-suppressive anti-inflammatory drugs (CSAID). Isoform Mxi2 is 100-fold less sensitive to these agents than the other isoforms and is not inhibited by DUSP1. Isoform Exip is not activated by MAP2K6.,function: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.,online information:P38 mitogen-activated protein kinases entry,PTM:Dually phosphorylated on Thr-180 and Tyr-182, which activates the enzyme.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Binds to a kinase interaction motif within the protein tyrosine phosphatase, PTPRR. This interaction retains MAPK14 in the cytoplasm and prevents nuclear accumulation. Interacts with SPAG9 (By similarity). Interacts with NP60 and FAM48A.,tissue specificity:Brain, heart, placenta, pancreas and skeletal muscle. Expressed to a lesser extent in lung, liver and kidney.,</p>
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.