



# Human MAPK14 (phospho Thr180/Tyr182) blocking peptide (CDBP2170)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Product Overview	p38 peptide - phospho T180 + Y182 ( phospho and non - phospho pair )
Antigen Description	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]
Species	Human
Conjugate	Unconjugated
Format	Lyophilized powder
Buffer	Lyophilized powder with trifluoroacetate salt, reconstitute with 100µl of ddH <sub>2</sub> O to each vial
Preservative	None
Storage	Store at -20°C

## GENE INFORMATION

Gene Name	<a href="#">MAPK14 mitogen-activated protein kinase 14 [ Homo sapiens (human) ]</a>
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<b>Official Symbol</b>	MAPK14
<b>Synonyms</b>	MAPK14; mitogen-activated protein kinase 14; RK; p38; CSBP; EXIP; Mxi2; CSBP1; CSBP2; CSPB1; PRKM14; PRKM15; SAPK2A; p38ALPHA; 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 protein kinase; mitogen-activated protein kinase p38 alpha; cytokine suppressive anti-inflammatory drug binding protein; cytokine suppressive anti-inflammatory drug-binding protein;
<b>Entrez Gene ID</b>	<a href="#">1432</a>
<b>mRNA Refseq</b>	<a href="#">NM_001315.2</a>
<b>Protein Refseq</b>	<a href="#">NP_001306.1</a>
<b>UniProt ID</b>	L7RSM2
<b>Chromosome Location</b>	6p21.3-p21.2
<b>Pathway</b>	ADP signalling through P2Y purinoceptor 1, organism-specific biosystem; AGE/RAGE pathway, organism-specific biosystem; ATF-2 transcription factor network, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Activation of the AP-1 family of transcription factors, organism-specific biosystem; Adrenergic signaling in cardiomyocytes, organism-specific biosystem; Adrenergic signaling in cardiomyocytes, conserved biosystem; Amyotrophic lateral sclerosis (ALS), organism
<b>Function</b>	ATP binding; MAP kinase activity; MAP kinase kinase activity; NFAT protein binding; protein binding; protein serine/threonine kinase activity;