



Rabbit Anti-Human MAPK14 (Phospho-Tyr322) polyclonal antibody (CABT-L3823)

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

PRODUCT INFORMATION

Product Overview	Rabbit Anti-Human Retinoblastoma (Phospho-Thr821) polyclonal antibody. This antibody detects endogenous levels of p38 MAPK only when phosphorylated at Tyr322.
Specificity	Target Modification: Phospho. Modification Sites: Human: Y322; Mouse: Y322; Rat: Y322
Target	Human p38 MAPK (Phospho-Tyr322)
Immunogen	The antiserum was produced against synthesized peptide derived from human p38 MAPK around the phosphorylation site of Tyr322. Immunogen range: 288-337
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purification	Affinity Purified
Conjugate	Unconjugated
Applications	WB, IHC, ELISA
Molecular Weight	41 kDa
Preparation	The antibody was purified from rabbit antiserum by affinity-chromatography using phospho peptide. The antibody against non-phospho peptide was removed by chromatography using corresponding non-phospho peptide.
Format	Liquid

Concentration	Lot specific
Size	100 µl
Buffer	Rabbit IgG in PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl and 50% glycerol.
Preservative	0.02% Sodium Azide
Storage	Stable at -20°C for at least 1 year.
Ship	Wet ice

BACKGROUND

Introduction 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.

Keywords 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;Csaid 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;

GENE INFORMATION

Gene Name	MAPK14 mitogen-activated protein kinase 14 [Homo sapiens (human)]
Official Symbol	MAPK14
Synonyms	protein, kinase p38-alpha, MAP kinase MXI2, MAP kinase p38, MAPK14, MAX-interacting protein 2, Mitogen-activated protein kinase 14, Mitogen-activated protein kinase p38, MK14, MXI2
Entrez Gene ID	1432

UniProt ID

[Q16539](#)
