Datasheet for ABIN7505298

MAPK14 Protein (AA 1-300) (His tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	MAPK14
Protein Characteristics:	AA 1-300
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAPK14 protein is labelled with His tag.

Product Details

Sequence:	Met 1-Ala 300
Characteristics:	A DNA sequence encoding the Human MAPK14 protein (Q16539) (Met 1-Ala 300) was expressed with a N-His&C-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	MAPK14
Alternative Name:	MAPK14 (MAPK14 Products)
Background:	Abbreviation: MAPK14 Target Synonym: Mitogen-activated protein kinase 14,MAPK14,MAP kinase MXI2,MAX-interacting protein 2 Background: The p38 Mitogen-activated Protein Kinases (MAPKs) are a family of four related

Target Details

	Ser/Thr kinases activated by proinflammatory cytokines and environmental stresses, such as UV irradiation and heat shock. Stress signals are delivered to this cascade by members of small GTPases of the Rho family (Rac, Rho, Cdc42). p38 MAPK is involved in the regulation of Hsp27 and MAPKAP-2 and several transcription factors including ATF2, STAT1, and indirectly CREB via activation of MSK1. The p38 MAPK protein also plays a role in cell differentiation, autophagy and apoptosis. Mkk3 and SEK can activate p38 MAPK by phosphorylation at Thr180 and Tyr182, which in turn activates the MAPKAP kinase 2 and regulating phosphorylation of ATF2, Mac and MEF2.
Molecular Weight:	Calculated MW: 32.89 kDa Observed MW: 32 kDa
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

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months