

Datasheet for ABIN7317046

MAPK12 Protein (GST tag,His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	MAPK12
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAPK12 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human ERK3/MAPK12 Protein (His & GST Tag)
Sequence:	Met 1-Leu 367
Characteristics:	A DNA sequence encoding the human MAPK12 (P53778) (Met1-Leu367) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	MAPK12
Alternative Name:	ERK3/MAPK12 (MAPK12 Products)
Background:	Background: ERK3; also known as MAPK12 and p38-gamma; belongs to the protein kinase superfamily; CMGC Ser/Thr protein kinase family and MAP kinase subfamily. ERK3 is highly expressed in skeletal muscle and heart. ERK3 is a serine/threonine kinase which acts as an

Target Details

essential component of the MAP kinase signal transduction pathway. MAPK12 is one of the four p38 MAPKs which play an important role in the cascades of cellular responses evoked by extracellular stimuli such as proinflammatory cytokines or physical stress leading to direct activation of transcription factors such as ELK1 and ATF2. Accordingly, p38 MAPKs phosphorylate a broad range of proteins and it has been estimated that they may have approximately 200 to 300 substrates each. MAPK12 is required for the normal kinetochore localization of PLK1; prevents chromosomal instability and supports mitotic cell viability. MAPK12-signaling is also positively regulating the expansion of transient amplifying myogenic precursor cells during muscle growth and regeneration.

Synonym: ERK-6;ERK3;ERK6;MAPK12;P38GAMMA;PRKM12;SAPK-3;SAPK3;P38-gamma

Molecular Weight: 69.8 kDa

UniProt: [P53778](#)

Pathways: [MAPK Signaling](#), [Neurotrophin Signaling Pathway](#), [Regulation of Muscle Cell Differentiation](#), [Hepatitis C](#), [BCR Signaling](#), [S100 Proteins](#)

Application Details

Restrictions: For Research Use only

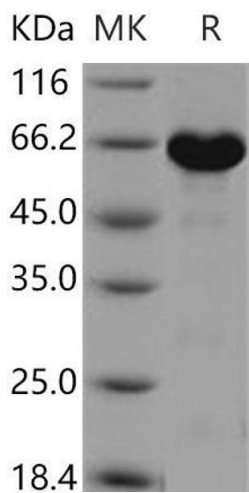
Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 8.0

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.