

Product datasheet

Recombinant human p38 gamma/MAPK12 protein ab125651

[1 References](#) [2 Images](#)

Description

Product name	Recombinant human p38 gamma/MAPK12 protein
Biological activity	The specific activity of ab125651 was determined to be 220 nmol/min/mg.
Purity	> 90 % Densitometry. Purity was determined to be >90% by densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>P53778</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	71 kDa including tags
Amino acids	1 to 367

Specifications

Our **Abpromise guarantee** covers the use of **ab125651** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot Functional Studies SDS-PAGE
Form	Liquid

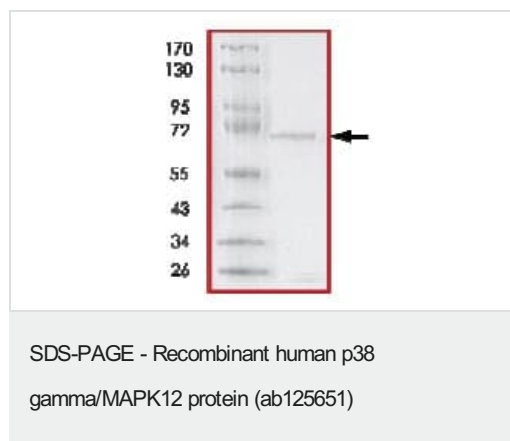
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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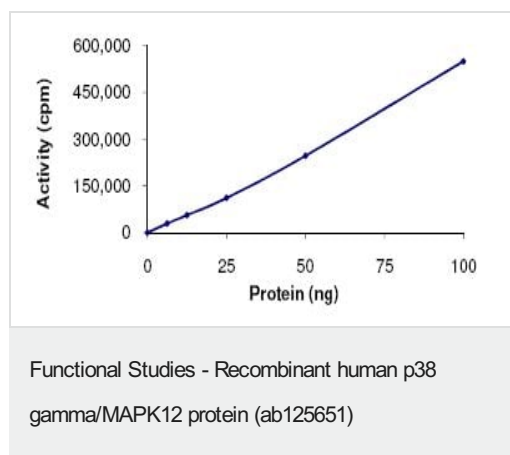
General Info

Function	Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating downstream targets. Plays a role in myoblast differentiation and also in the down-regulation of cyclin D1 in response to hypoxia in adrenal cells suggesting MAPK12 may inhibit cell proliferation while promoting differentiation.
Tissue specificity	Highly expressed in skeletal muscle and heart.
Sequence similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.
Domain	The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.
Post-translational modifications	Dually phosphorylated on Thr-183 and Tyr-185, which activates the enzyme.
Cellular localization	Cytoplasm. Mitochondrion. Mitochondrial when associated with SH3BP5.

Images



SDS-PAGE analysis of ab125651.



The specific activity of ab125651 was determined to be 220 nmol/min/mg by Kinase Assay.

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