

## Product datasheet

# Recombinant human MAP4K1/HPK1 protein ab107953

5 Images

### Description

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<b>Product name</b>	Recombinant human MAP4K1/HPK1 protein
<b>Biological activity</b>	The Specific activity of ab107953 was determined to be 125 nmol/min/mg.
<b>Purity</b>	> 75 % SDS-PAGE. Purity was determined to be >75% by densitometry. Affinity purified.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Accession</b>	<b><u>Q92918</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Predicted molecular weight</b>	65 kDa including tags
<b>Amino acids</b>	1 to 346

### Specifications

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Our **Abpromise guarantee** covers the use of **ab107953** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE Western blot Functional Studies
<b>Form</b>	Liquid
<b>Additional notes</b>	<b><u>ab64311</u></b> (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity  This product was previously labelled as MAP4K1

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50
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Constituents: 0.307% Glutathione, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

### Function

May play a role in the response to environmental stress. Appears to act upstream of the JUN N-terminal pathway. May play a role in hematopoietic lineage decisions and growth regulation.

### Tissue specificity

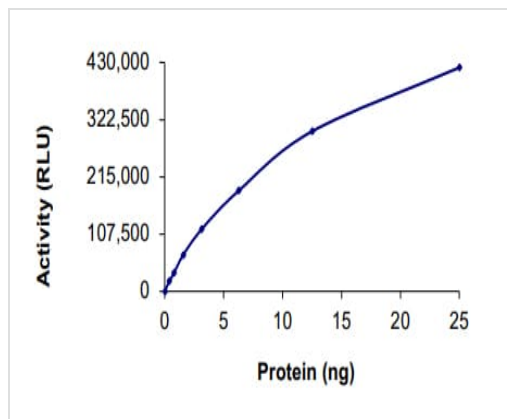
Expressed primarily in hematopoietic organs, including bone marrow, spleen and thymus. Also expressed at very low levels in lung, kidney, mammary glands and small intestine.

### Sequence similarities

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 CNH domain.

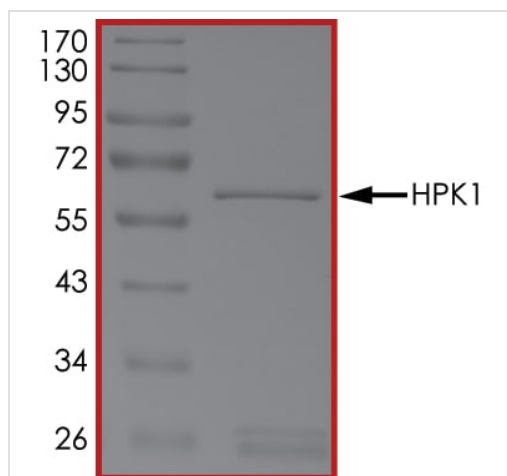
Contains 1 protein kinase domain.

## Images



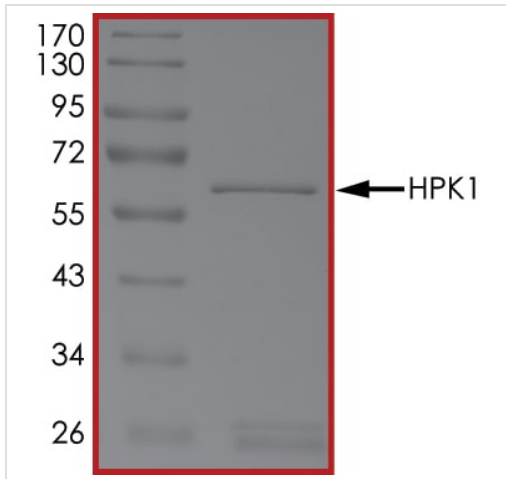
The specific activity of MAP4K1/HPK1 (ab107953) was determined to be 110 nmol/min/mg as per activity assay protocol and was equivalent to 144 nmol/min/mg as per radiometric assay

Functional Studies - Recombinant human MAP4K1/HPK1 protein (ab107953)



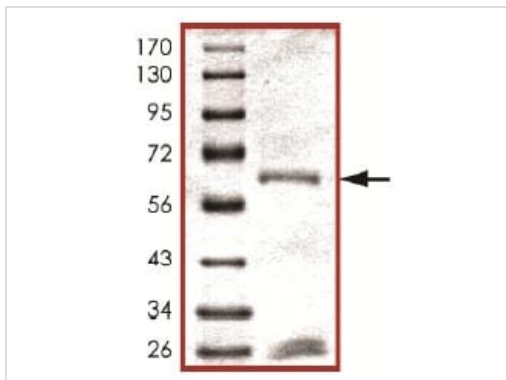
SDS PAGE analysis of ab107953

SDS-PAGE - Recombinant human MAP4K1/HPK1 protein (ab107953)



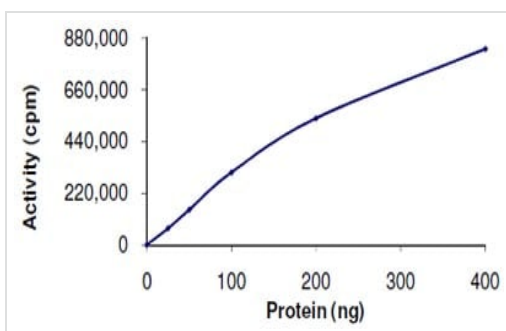
SDS PAGE analysis of ab107953

SDS-PAGE - Recombinant human MAP4K1/HPK1 protein (ab107953)



SDS-PAGE showing ab107953 at approximately 65kDa.

SDS-PAGE - Recombinant human MAP4K1/HPK1 protein (ab107953)



Kinase Assay demonstrating specific activity of ab107953.

Functional Studies - Recombinant human MAP4K1/HPK1 protein (ab107953)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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