

# Recombinant human MNK1 protein ab125635

4 Images

### Description

<b>Product name</b>	Recombinant human MNK1 protein
<b>Biological activity</b>	The specific activity of ab125635 was determined to be 16 - 20 nmol/min/mg.
<b>Purity</b>	> 85 % Densitometry. Purity was determined to be >85% by densitometry. Affinity purified.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Accession</b>	<b><u>Q9BUB5</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Predicted molecular weight</b>	92 kDa including tags
<b>Amino acids</b>	1 to 465

### Specifications

Our **Abpromise guarantee** covers the use of **ab125635** 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>	Western blot Functional Studies SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	<b><u>ab204868</u></b> (Modified EIF2S peptide) can be utilized as a substrate for assessing kinase activity

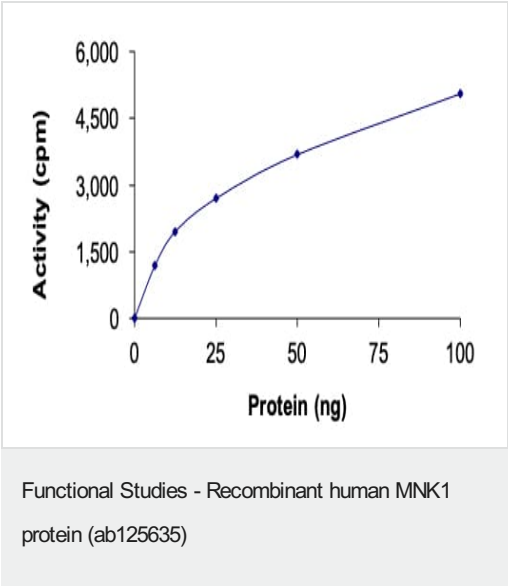
### Preparation and Storage

<b>Stability and Storage</b>	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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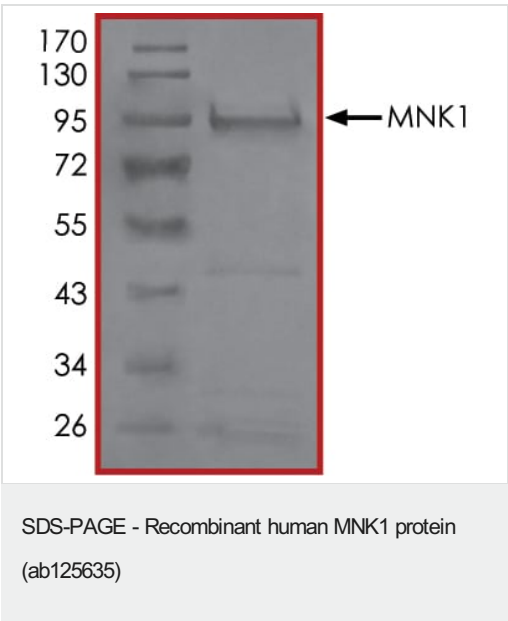
General Info

Function	May play a role in the response to environmental stress and cytokines. Appears to regulate transcription by phosphorylating EIF4E, thus increasing the affinity of this protein for the 7-methylguanosine-containing mRNA cap.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. Contains 1 protein kinase domain.
Post-translational modifications	Dual phosphorylation of Thr-250 and Thr-255 activates the kinase. Phosphorylation of Thr-385 activates the kinase.
Cellular localization	Cytoplasm and Cytoplasm. Nucleus.

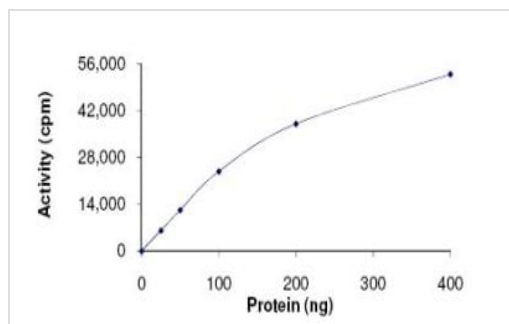
Images



The specific activity of MNK1 (ab125635) was determined to be 16 nmol/min/mg as per activity assay protocol

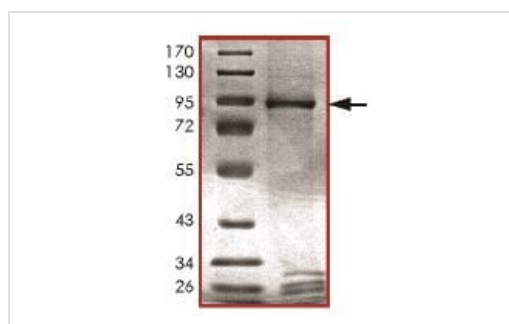


SDS PAGE analysis of ab125635



Sample Kinase Assay showing the specific activity of ab125635 as 16 nmol/min/mg.

Functional Studies - Recombinant human MNK1 protein (ab125635)



SDS-PAGE analysis of ab125635.

SDS-PAGE - Recombinant human MNK1 protein (ab125635)

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

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