abcam

Product datasheet

Recombinant human MK2 protein ab60307

1 References 4 Images

Description

Product name Recombinant human MK2 protein

Biological activity Specific activity: 254 nmol/min/mg.

Purity > 90 % Densitometry.

Affinity purified.

Expression system Baculovirus infected Sf9 cells

Accession P49137-1

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Human

Predicted molecular weight 68 kDa

Amino acids 46 to 400

Tags GST tag N-Terminus

Additional sequence information Recombinant fragment, corresponding to amino acids 46-end of Human MAPKAP Kinase 2.

Specifications

Our **Abpromise guarantee** covers the use of **ab60307** in the following tested applications.

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

Applications Functional Studies

SDS-PAGE

Form Liquid

Additional notes <u>ab204861</u> (Hsp27 peptide) can be utilized as a substrate for assessing kinase activity

This product was previously labelled as MAPKAP Kinase 2

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

1

pH: 7.50

Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCI, 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 Its physiological substrate seems to be the small heat shock protein (HSP27/HSP25). In vitro can

phosphorylate glycogen synthase at 'Ser-7' and tyrosine hydroxylase (on 'Ser-19' and 'Ser-40'). This kinase phosphorylates Ser in the peptide sequence, Hyd-X-R-X(2)-S, where Hyd is a large hydrophobic residue (By similarity). Mediates both ERK and p38 MAPK/MAPK14 dependent neutrophil responses. Participates in TNF alpha-stimulated exocytosis of secretory vesicles in

neutrophils. Plays a role in phagocytosis-induced respiratory burst activity.

Tissue specificity Expressed in all tissues examined.

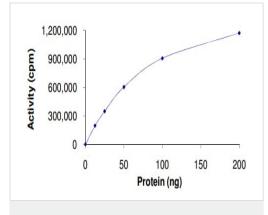
Sequence similarities Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.

Contains 1 protein kinase domain.

Post-translational modifications

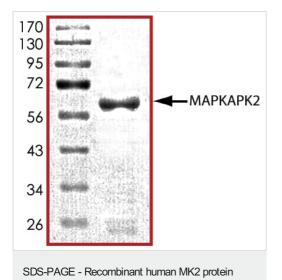
Phosphorylated and activated by MAP kinase.

Images

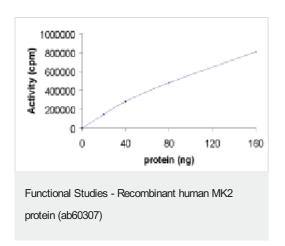


Functional Studies - Recombinant human MK2 protein (ab60307)

The specific activity of MK2 (ab60307) was determined to be 315 nmol/min/mg as per activity assay protocol

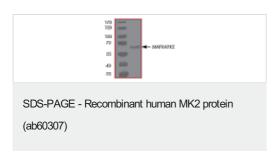


SDS PAGE analysis of ab60307



(ab60307)

Sample Kinase Activity Plot.



ab60307 on SDS-PAGE.

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