

Recombinant human SIK1 protein ab195112

5 Images

Description

Product name	Recombinant human SIK1 protein
Biological activity	The specific activity of ab195112 was determined to be 180 nmol/min/mg.
Purity	> 90 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>P57059</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MVIMSEFSAD PAGQGQGQK PLRVGFYDIE RTLKGKNFAV VKLARHRVTK TQVAIKIIDK TRLDSSNLEK YREVQLMKL LNHPHIKLY QVMETKDMLY MTEFAKNGE MFDYLTSGNH LSENEARKKF WQILSAVEYC HDDHHVHRDL KTENLLLDGN MDIKLADFGF GNFYKSGEPL STWCGSPPYA APEVFEGKEY EGPQLDIWSL GVVLYVLVCG SLPFDGPNLP TLRQRVLEGR FRIPFFMSQD CESLIRRLV VDPARRITIA QIRQHRWMRA EPCLPGPACP AFSAHSYTSN LGD
Predicted molecular weight	61 kDa including tags
Amino acids	1 to 303
Tags	GST tag N-Terminus
Additional sequence information	NP_775490.2.

Specifications

Our **Abpromise guarantee** covers the use of **ab195112** in the following tested applications.

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

Applications	SDS-PAGE
	Functional Studies

Form	Liquid
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Additional notes

ab204852 (AMARA substrate peptide for SIK + AMPK) can be utilized as a substrate for assessing kinase activity

Previously labelled as Snf1lk.

This product was previously labelled as Snf1lk/SIK-1

Preparation and Storage

Stability and Storage

Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.50

Constituents: 25% Glycerol (glycerin, glycerine), 0.002% PMSF, 0.004% DTT, 0.003% EDTA, 0.31% Glutathione, 0.87% Sodium chloride, 0.79% Tris HCl

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

General Info

Function

Transient role during the earliest stages of myocardial cell differentiation and/or primitive chamber formation and may also be important for the earliest stages of skeletal muscle growth and/or differentiation. Potential role in G2/M cell cycle regulation. Inhibits CREB activity by phosphorylating and repressing the CREB-specific coactivators, CRTC1-3.

Sequence similarities

Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. AMPK subfamily. Contains 1 protein kinase domain. Contains 1 UBA domain.

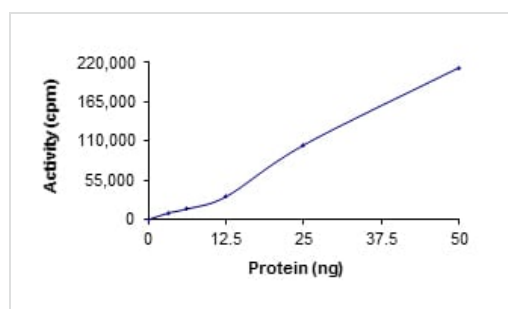
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

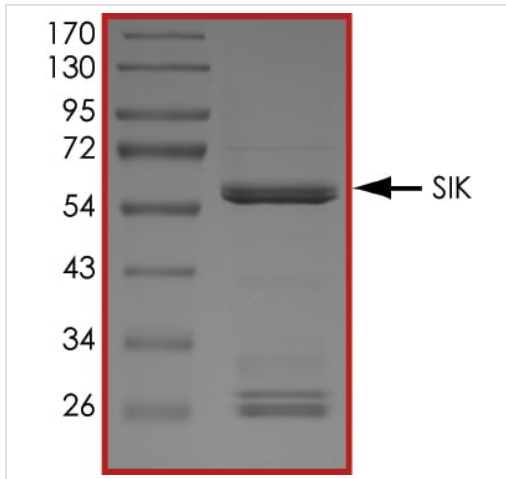
Cytoplasm. Nucleus. Translocates to the cytoplasm on phosphorylation where it binds binding to YWHAZ.

Images



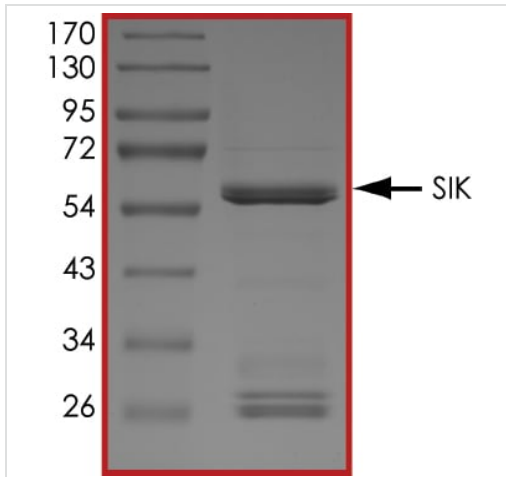
The specific activity of SIK1 (ab195112) was determined to be 155 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human SIK1 protein (ab195112)



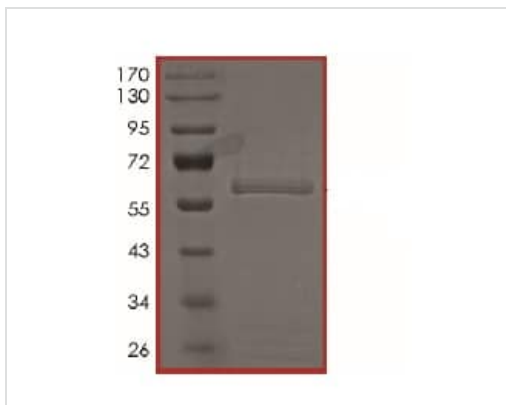
SDS-PAGE - Recombinant human SIK1 protein
(ab195112)

SDS PAGE analysis of ab195112



SDS-PAGE - Recombinant human SIK1 protein
(ab195112)

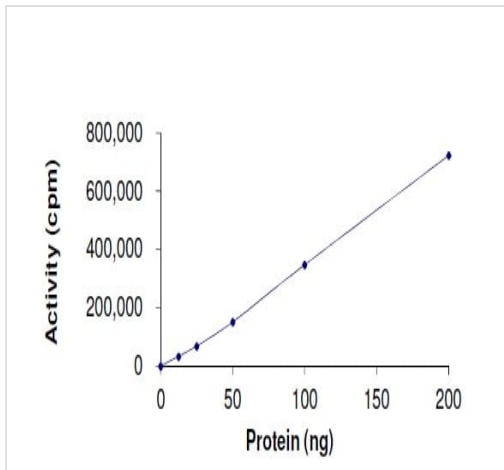
SDS PAGE analysis of ab195112



SDS-PAGE - Recombinant human SIK1 protein
(ab195112)

SDS-PAGE analysis of ab195112.

Kinase Assay demonstrating specific activity of ab195112.



Functional Studies - Recombinant human SIK1
protein (ab195112)

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

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