abcam

Product datasheet

Recombinant human MARK2 protein ab119135

2 Images

Overview

Product name	Recombinant human MARK2 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Baculovirus infected Sf9 cells

Amino Acid Sequence

Accession	Q7KZI7
Species	Human
Molecular weight	114 kDa including tags
Amino acids	1 to 788

Specifications

Our Abpromise guarantee covers the use of **ab119135** in the following tested applications.

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

Biological activity	Specific Activity: 725 - 795 nmol/min/mg
Applications	SDS-PAGE Western blot Functional Studies
Purity	> 70 % SDS-PAGE. Purity was determined to be >70% by densitometry.
Form	Liquid
Additional notes	ab204854 (Cdc25C peptide) can be utilized as a substrate for assessing kinase activity

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50

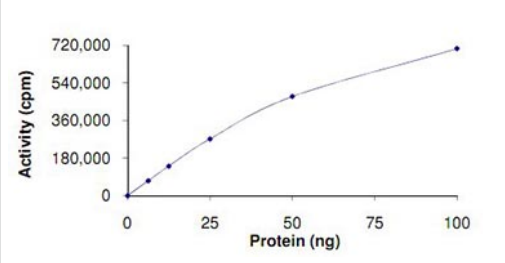
Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol, 0.88% Sodium chloride

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

General Info

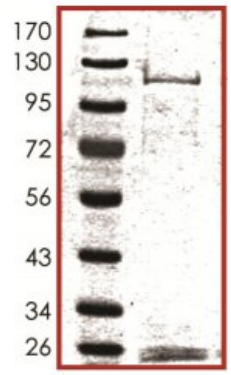
Function	Role in epithelial morphogenesis. Modulates the developmental decision to build a columnar versus a hepatic epithelial cell apparently by promoting a switch from a direct to a transcytotic mode of apical protein delivery. Essential for the asymmetric development of membrane domains of polarized epithelial cells. One or more isoforms may play a role in graft rejection.
Tissue specificity	High levels of expression in heart, brain, skeletal muscle and pancreas, lower levels observed in lung, liver and kidney.
Sequence similarities	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. MARK subfamily. Contains 1 KA1 (kinase-associated) domain. Contains 1 protein kinase domain. Contains 1 UBA domain.
Cellular localization	Cell membrane. Phosphorylated by PRKCZ in polarized epithelial cells, resulting in an interaction with YWHAZ which promotes relocation from the lateral to the apical membrane.

Images



Functional Studies - MARK2 protein (Active) (ab119135)

Sample Kinase Activity Plot: The specific activity of ab119135 was determined to be 795 nmol/min/mg.



SDS-PAGE - MARK2 protein (Active) (ab119135)

SDS-PAGE analysis of ab119135.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit http://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors