

Product datasheet

Recombinant human MARK2 protein ab119135

2 Images

Overview

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<b>Product name</b>	Recombinant human MARK2 protein
<b>Protein length</b>	Full length protein

Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Baculovirus infected Sf9 cells

Amino Acid Sequence

<b>Accession</b>	<a href="#">Q7KZ17</a>
<b>Species</b>	Human
<b>Molecular weight</b>	114 kDa including tags
<b>Amino acids</b>	1 to 788

Specifications

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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.

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

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: 0.31% 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.

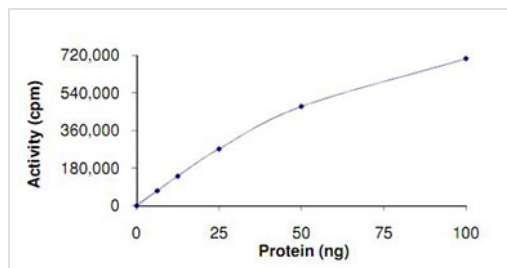
Contains 1 protein kinase domain.

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.

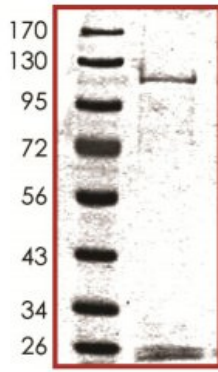
## Images



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

Functional Studies - MARK2 protein (Active)  
(ab119135)

SDS-PAGE analysis of ab119135.



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

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