abcam

Product datasheet

Recombinant human MARK2 protein ab119135

5 Images

Description

Product name	Recombinant human MARK2 protein
Biological activity	Specific Activity: 725 - 795 nmol/min/mg
Purity	> 70 % SDS-PAGE. Purity was determined to be >70% by densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	Q7KZI7
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted 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.

Applications	SDS-PAGE Western blot Functional Studies
Form	Liquid
Additional notes	**ab204854** (Cdc25C peptide) can be utilized as a substrate for assessing kinase activity

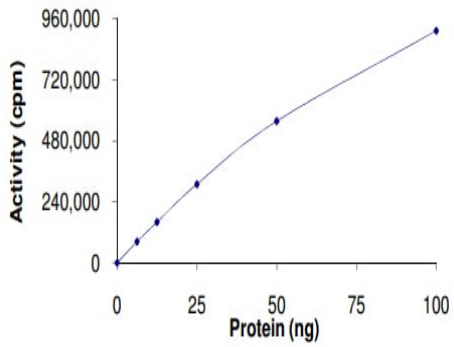
Preparation and Storage

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 (glycerin, glycerine), 0.88% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

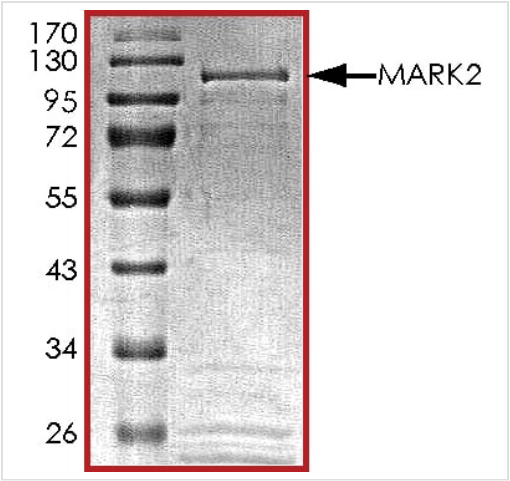
Function	Role in epithelial morphogenesis. Modulates the developmental decision to build a columnar versus a hepatic epithelial cell apparently by promoting a switch from a direct to a transcytotic mode of apical protein delivery. Essential for the asymmetric development of membrane domains of polarized 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



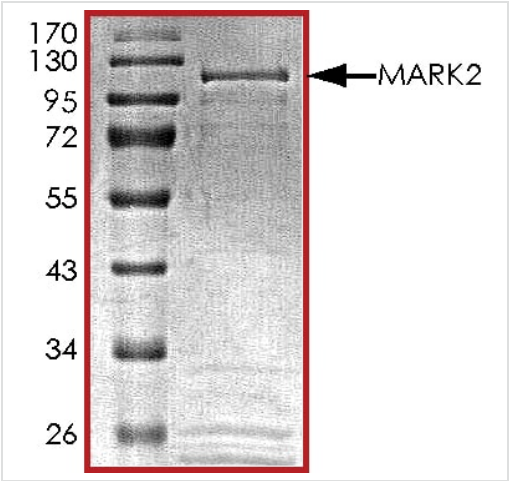
Functional Studies - Recombinant human MARK2 protein (ab119135)

The specific activity of MARK2 (ab119135) was determined to be 790 nmol/min/mg as per activity assay protocol



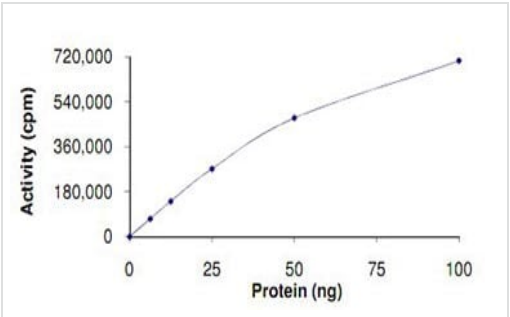
SDS-PAGE - Recombinant human MARK2 protein (ab119135)

SDS PAGE analysis of ab119135



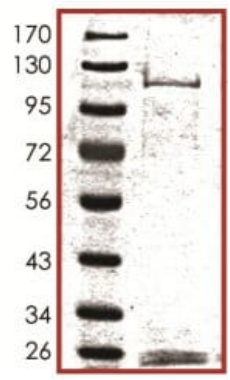
SDS-PAGE - Recombinant human MARK2 protein (ab119135)

SDS PAGE analysis of ab119135



Functional Studies - Recombinant human MARK2 protein (ab119135)

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



SDS-PAGE - Recombinant human MARK2 protein (ab119135)

SDS-PAGE analysis of ab119135.

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