Product Name: MARK2 Rabbit Polyclonal Antibody
Catalog #: APRab13649

Summary

Production Name	MARK2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF,WB,
Reactivity	Human,Mouse,Rat,Monkey

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MARK2
Alternative Names	MARK2; EMK1; Serine/threonine-protein kinase MARK2; ELKL motif kinase 1; EMK-1; MAP/microtubule affinity-regulating kinase 2; PAR1 homolog; PAR1 homolog b; Par-1b; Par1b
Gene ID	2011.0
SwissProt ID	Q7KZI7.The antiserum was produced against synthesized peptide derived from human MARK2. AA range:10-59

Application

Dilution Ratio	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

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Molecular Weight 85kD

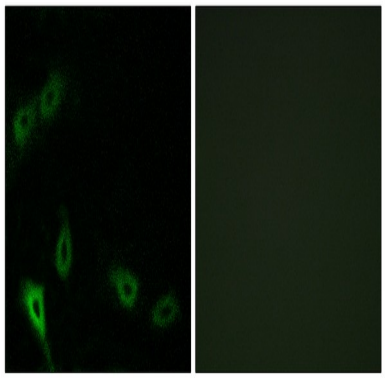
Background

microtubule affinity regulating kinase 2(MARK2) Homo sapiens This gene encodes a member of the Par-1 family of serine/threonine protein kinases. The protein is an important regulator of cell polarity in epithelial and neuronal cells, and also controls the stability of microtubules through phosphorylation and inactivation of several microtubule-associating proteins. The protein localizes to cell membranes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2009],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Activated by phosphorylation on Thr-208 by STK11 in complex with STE20-related adapter-alpha (STRAD alpha) pseudo kinase and CAB39.,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.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. MARK subfamily.,similarity:Contains 1 KA1 (kinase-associated) domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 UBA domain.,subcellular location:Phosphorylated by PRKCZ in polarized epithelial cells, resulting in an interaction with YWHAZ which promotes relocation from the lateral to the apical membrane.,tissue specificity:High levels of expression in heart, brain, skeletal muscle and pancreas, lower levels observed in lung, liver and kidney.,

Research Area

Regulation of Microtubule Dynamics

Image Data



Immunofluorescence analysis of A549 cells, using MARK2 Antibody. The picture on the right is blocked with the synthesized peptide.

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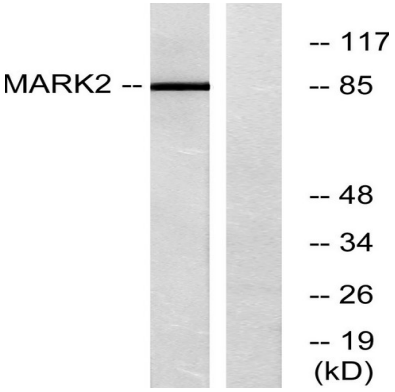
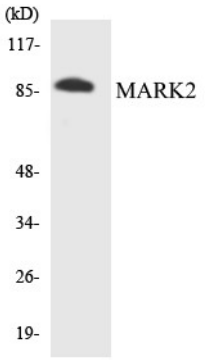
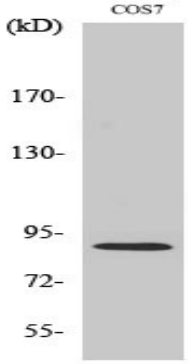


Western blot analysis of lysates from COS7 cells, using MARK2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from 293 cells using MARK2 antibody.



Western Blot analysis of various cells using MARK2 Polyclonal Antibody

Note

For research use only.