

MARK2 (Phospho Thr596) Rabbit pAb

CatalogNo: YP1189

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IF, ELISA

MW

- 88kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IF 1:200-1:1000

ELISA 1:5000

Not yet tested in other applications

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human MARK2 around the phosphorylation site of Thr596. AA range:562-611

Specificity Phospho-MARK2 (T596) Polyclonal Antibody detects endogenous levels of MARK2 protein only when phosphorylated at T596. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RStFH

Target Information

Gene name MARK2

Protein Name Serine/threonine-protein kinase MARK2

Organism	Gene ID	UniProt ID
Human	2011 ;	Q7KZ17 ;
Mouse	13728 ;	Q05512 ;
Rat	60328 ;	O08679 ;

Cellular Localization

Cell membrane; Peripheral membrane protein. Cytoplasm. Lateral cell membrane. Cytoplasm , cytoskeleton. Cell projection , dendrite . Cytoplasm . Phosphorylation at Thr-596 by PRKCZ/aPKC and subsequent interaction with 14-3-3 protein YWHAZ promotes relocation from the cell membrane to the cytoplasm.

Tissue specificity

High levels of expression in heart , brain , skeletal muscle and pancreas , lower levels observed in lung , liver and kidney.

Function

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. ,

Validation Data

Contact information

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