

Rabbit MARK Polyclonal Antibody | anti-MARK1 antibody

MARK Antibody

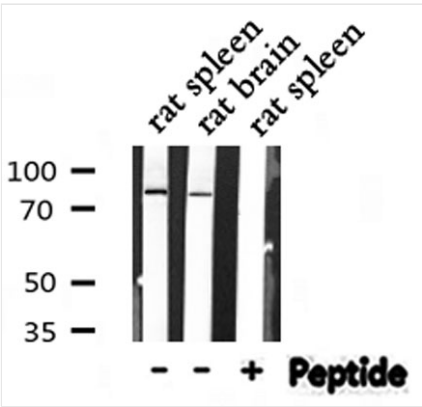
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324150	Rabbit	Human, Mouse, Rat	ELISA, Western Blot

PRODUCT SYNONYMS

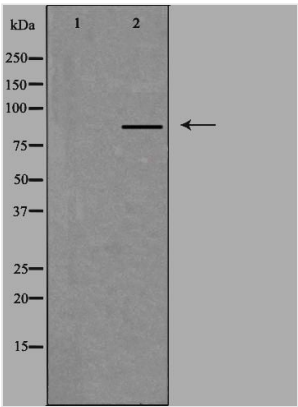
MARK; Polyclonal Antibody; MARK Antibody; KIAA1477; MAP/microtubule affinity regulating kinase 1; MAP/microtubule affinity-regulating kinase 1; MARK 1; Mark1; MARK1_HUMAN; MGC126512; MGC126513; Serine/threonine protein kinase MARK1; Serine/threonine-protein kinase MARK1; ELKL motif kinase 1; ELKL motif kinase; EMK-1; EMK1; MAP/microtubule affinity regulating kinase 2; MAP/microtubule affinity-regulating kinase 2; Mark2; MARK2_HUMAN; MGC99619; PAR 1; Par 1b; PAR1 homolog; Par1b; Ser/Thr protein kinase PAR 1B; Serine/threonine protein kinase EMK; Serine/threonine protein kinase MARK2; Serine/threonine-protein kinase MARK2; C-TAK1; Cdc25C associated protein kinase 1; Cdc25C-associated protein kinase 1; cTAK1; ELKL motif kinase 2; EMK-2; Emk2; ETK 1; KIAA4230; KP78; MAP microtubule affinity regulating kinase 3; MAP/microtubule affinity-regulating kinase 3; Mark3; MARK3_HUMAN; Par 1a; PAR1A; Protein kinase STK10; Ser/Thr protein kinase PAR-1; Serine threonine protein kinase p78; Serine/threonine-protein kinase p78; SerThr protein kinase PAR 1; FLJ90097; KIAA1860; MAP/microtubule affinity regulating kinase 4; MAP/microtubule affinity regulating kinase 4L; MAP/microtubule affinity regulating kinase like 1; MAP/microtubule affinity-regulating kinase 4; MAP/microtubule affinity-regulating kinase-like 1; MARK 4; MARK 4L; MARK L1; MARK4; MARK4 serine/threonine protein kinase; MARK4_HUMAN; MARK4S; MARKL 1; MARKL1; Nbla00650; Putative protein product of Nbla00650; anti-MARK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MARK antibody detects endogenous levels of total MARK
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	758
Applicable Applications for anti-MARK1 antibody	ELISA, WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm > Cytoskeleton. Appears to localize to an intracellular network.
Tissue Specificity	Highly expressed in heart, skeletal muscle, brain, fetal brain and fetal kidney.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of MARK expression in various lysates



WB (Western Blot)
Western blot analysis of extracts from HeLa cells, using MARK antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MARK1 antibody	Function: Serine/threonine-protein kinase involved in cell polarity and microtubule dynamics regulation. Phosphorylates DCX, MAP2, MAP4 and MAPT/TAU. Involved in cell polarity by phosphorylating the microtubule-associated proteins MAP2, MAP4 and MAPT/TAU at KXGS motifs, causing detachment from microtubules, and their disassembly. Involved in the regulation of neuronal migration through its dual activities in regulating cellular polarity and microtubule dynamics, possibly by phosphorylating and regulating DCX. Also acts as a positive regulator of the Wnt signaling pathway, probably by mediating phosphorylation of dishevelled proteins (DVL1, DVL2 and/or DVL3). Post-translational Modifications: Phosphorylation at Thr-613 by PRKCZ/aPKC in polarized epithelial cells inhibits the kinase activity (By similarity). Phosphorylated at Thr-215 by STK11/LKB1 in complex with STE20-related adapter-alpha (STRADA) pseudo kinase and CAB39. Phosphorylation at Thr-215 by TAOK1 activates the kinase activity, leading to phosphorylation and detachment of MAPT/TAU from microtubules. Phosphorylation at Ser-219 by GSK3-beta (GSK3B) inhibits the kinase activity. Similarity: The UBA domain does not seem to bind ubiquitin and ubiquitin-like and might play a role in regulating the enzyme conformation and localization. Activation of the kinase activity following phosphorylation at Thr-208 is accompanied by a conformational change that alters the orientation of the UBA domain with respect to the catalytic domain (By similarity). The KA1 domain mediates binding to phospholipids and targeting to membranes. Binds phosphatidic acid (PA), phosphatidylserine (PtdSer) and phosphatidylinositol 4, 5-bisphosphate (PtdIns(4, 5)P2). Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	554790379
NCBI GeneID	4139
NCBI Accession #	NP_001273057.1
NCBI GenBank Nucleotide #	NM_001286128.1
UniProt Accession #	Q9P0L2; Q2HIY1; Q5VTF9; Q5VTG0; Q96SW9; Q9P251; D3DTB0; D3DTB1
Molecular Weight	Observed: 89 kD Predicted: 90 kDa
NCBI Official Full Name	serine/threonine-protein kinase MARK1 isoform 4
NCBI Official Synonym Full Names	microtubule affinity regulating kinase 1
NCBI Official Symbol	MARK1
NCBI Official Synonym Symbols	MARK; Par1c; Par-1c
NCBI Protein Information	serine/threonine-protein kinase MARK1

UniProt Protein Name	Serine/threonine-protein kinase MARK1
UniProt Gene Name	MARK1
UniProt Synonym Gene Names	Par-1c; Par1c

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mark-antibody-western-blot-elisa/324150>