

Rabbit MARK3 Polyclonal Antibody | anti-MARK3 antibody

MARK3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323844	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MARK3; Polyclonal Antibody; MARK3 Antibody; 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; anti-MARK3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MARK3 antibody detects endogenous levels of total MARK3
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	753
Applicable Applications for anti-MARK3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	MARK1: Cytoplasmic, Cytoskeleton. MARK2: Cell Membrane; Peripheral Membrane Protein.
Tissue Specificity	Ubiquitous.
Predicted Cross Reactivity	Pig, Rabbit, Dog, Chicken
Similarity	Pig (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA323844 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HeLa using MARK3 antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of extracts from mouse brain, using MARK3 antibody.



IHC (Immunohistochemistry)

AAA323844 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-MARK3 antibody

Function: Involved in the specific phosphorylation of microtubule-associated proteins for tau, MAP2 and MAP4. Phosphorylates CDC25C on 'Ser-216'. Regulates localization and activity of some histone deacetylases by mediating phosphorylation of HDAC7, promoting subsequent interaction between HDAC7 and 14-3-3 and export from the nucleus (PubMed:16980613). Negatively regulates the Hippo signaling pathway and antagonizes the phosphorylation of LATS1. Cooperates with DLG5 to inhibit the kinase activity of STK3/MST2 toward LATS1 (PubMed:28087714).
Subunit Structure: Interacts with DLG5 (via coiled-coil domain). Interacts with STK3/MST2 and STK4/MST1 in the presence of DLG5 (PubMed:28087714).
Post-translational Modifications: Phosphorylated at Thr-211 by STK11/LKB1 in complex with STE20-related adapter-alpha (STRADA) pseudo kinase and CAB39. Phosphorylation at Thr-564 by PRKCZ/aPKC inhibits the kinase activity.
Similarity: Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	731441413
NCBI GeneID	4140
NCBI Accession #	NP_001122390.2
NCBI GenBank Nucleotide #	NM_001128918.2
UniProt Accession #	P27448; O60219; Q86TT8; Q8TB41; Q8WX83; Q96RG1; Q9UMY9; Q9UN34; A0A0A0MQR8; A0A0A0MST9; A0A0A0MT23
Molecular Weight	Observed: 85 kD Predicted: 85 kDa
NCBI Official Full Name	MAP/microtubule affinity-regulating kinase 3 isoform a
NCBI Official Synonym Full Names	microtubule affinity regulating kinase 3
NCBI Official Symbol	MARK3
NCBI Official Synonym Symbols	KP78; CTAK1; PAR1A; Par-1a
NCBI Protein Information	MAP/microtubule affinity-regulating kinase 3
UniProt Protein Name	MAP/microtubule affinity-regulating kinase 3

UniProt Gene Name	MARK3
UniProt Synonym Gene Names	CTAK1; EMK2; cTAK1; EMK-2; Par-1a

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/mark3-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/323844>