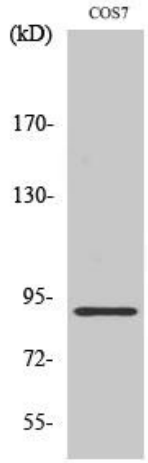
MARK1/2/3/4 Polyclonal Antibody

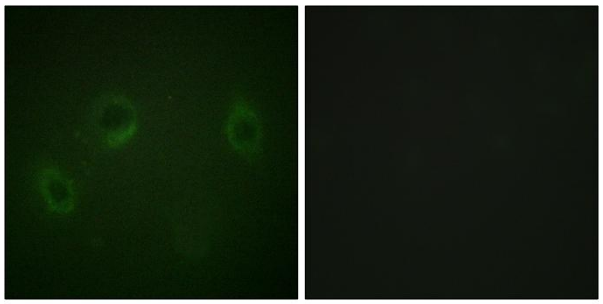
Catalog No	YP-Ab-14824
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB;IHC;IF;ELISA
Gene Name	MARK1/2/3/4
Protein Name	Serine/threonine-protein kinase MARK1/2/3/4
Immunogen	The antiserum was produced against synthesized peptide derived from human MARK1/2/3/4. AA range:181-230
Specificity	MARK1/2/3/4 Polyclonal Antibody detects endogenous levels of MARK1/2/3/4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MARK1; KIAA1477; MARK; Serine/threonine-protein kinase MARK1; MAP/microtubule affinity-regulating kinase 1; PAR1 homolog c; Par-1c; Par1c; MARK2; EMK1; Serine/threonine-protein kinase MARK2; ELKL motif kinase 1; EMK-1; MAP/microtubule affin
Observed Band	89kD
Cell Pathway	Cell membrane ; Peripheral membrane protein . Cytoplasm, cytoskeleton . Cytoplasm . Cell projection, dendrite . Appears to localize to an intracellular network. .
Tissue Specificity	Highly expressed in heart, skeletal muscle, brain, fetal brain and fetal kidney.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Activated by phosphorylation on Thr-215 by STK11 in complex with STE20-related adapter-alpha (STRAD alpha) pseudo kinase and CAB39.,function:May play a role in cytoskeletal stability.,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:Appears to localize to an intracellular network.,tissue specificity:Highly expressed in heart,

	skeletal muscle, brain, fetal brain and fetal kidney.,
Background	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Activated by phosphorylation on Thr-215 by STK11 in complex with STE20-related adapter-alpha (STRAD alpha) pseudo kinase and CAB39.,function:May play a role in cytoskeletal stability.,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:Appears to localize to an intracellular network.,tissue specificity:Highly expressed in heart, skeletal muscle, brain, fetal brain and fetal kidney.,
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

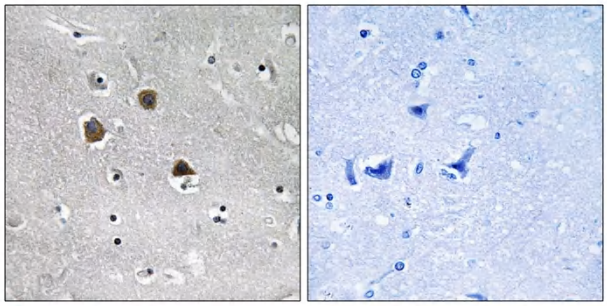
Products Images



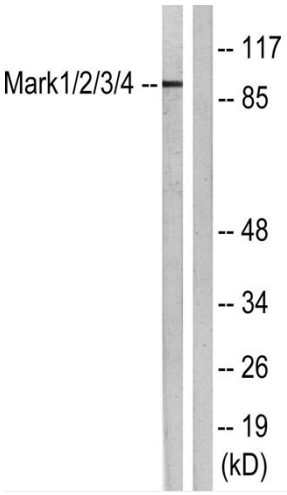
Western Blot analysis of various cells using MARK1/2/3/4 Polyclonal Antibody



Immunofluorescence analysis of HeLa cells, using MARK1/2/3/4 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using MARK1/2/3/4 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COS7 cells, using MARK1/2/3/4 Antibody. The lane on the right is blocked with the synthesized peptide.