

**MARK1/2/3/4 rabbit pAb****Cat#: orb765621 (Manual)**

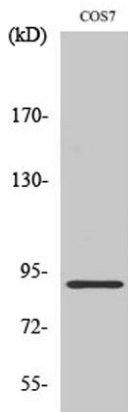
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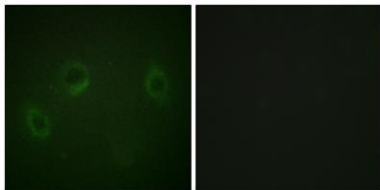
<b>Product Name</b>	MARK1/2/3/4 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat;Monkey
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human MARK1/2/3/4. AA range:181-230
<b>Specificity</b>	MARK1/2/3/4 Polyclonal Antibody detects endogenous levels of MARK1/2/3/4 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Serine/threonine-protein kinase MARK1/2/3/4
<b>Gene Name</b>	MARK1/2/3/4
<b>Cellular localization</b>	Cell membrane ; Peripheral membrane protein . Cytoplasm, cytoskeleton . Cytoplasm . Cell projection, dendrite . Appears to localize to an intracellular network. .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	89kD
<b>Human Gene ID</b>	4139/2011/4140/57787
<b>Human Swiss-Prot Number</b>	Q9P0L2/Q7KZI7/P27448/Q96L34
<b>Alternative Names</b>	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

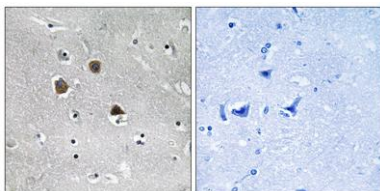
**Background**

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.,

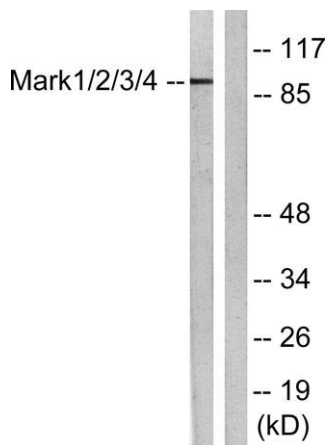
**Western Blot analysis of various cells using MARK1/2/3/4 Polyclonal Antibody**



**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.**