

Product datasheet for **AP09297PU-N**

MARK2 pThr595 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	ELISA: 1/1,000 - 1/3,000. Western Blot: 1/250 - 1/1,000.
Reactivity:	Bovine, Canine, Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to amino acids surrounding T595 of Human MARK2 isoform a. The immunogen peptide was phosphorylated at the residue corresponding to T595
Specificity:	This antibody is directed against the phosphorylated form of MARK2 at thepT595 residue.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 0.01% (w/v) Sodium Azide State: Aff - Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	microtubule affinity regulating kinase 2
Database Link:	Entrez Gene 2011 Human Q7KZ17



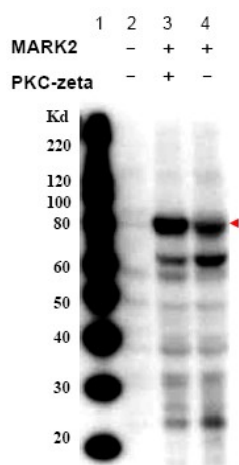
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Background:

This antibody recognizes a regulatory phosphorylation on a kinase that is critical to regulation of microtubules, cell cycle and immune responses. MARK2 refers to MAP/microtubule affinity-regulating kinase 2 isoform a [Homo sapiens]. EMK (ELKL Motif Kinase) is a small family of ser/thr protein kinases involved in the control of cell polarity, microtubule stability and cancer. Several cDNA clones have been isolated that encode two isoforms of the human ser/thr protein kinase EMK1 called MARK2. These isoforms were characterized by the presence of a 162-bp alternative exon that gives rise to two forms, one containing the exon and the other one lacking it. Both forms were found to be co-expressed in a number of selected cell lines and tissue samples. Human MARK2 was shown to be encoded by a single mRNA that is ubiquitously expressed. This transcription variant includes the alternative exon in the coding region and therefore codes for a longer protein. Multiple splice variants exist for this protein.

Synonyms:

Serine/threonine-protein kinase, 2, ELKL motif kinase, EMK1, PAR1 homolog, MARK2, EMK1

Product images:


Western blot using Affinity Purified anti-MARK2 pT595 antibody shows detection of a band at ~82 kDa corresponding to phosphorylated MARK2 (arrowhead). HEK293 cells were transfected with pCMV-3xFlag-MARK2 plus pCMV-Flag-PKC-zeta (lane 3) or pCMV-3xFlag-MARK2 only (lane 4). Total cell lysates were run in a 4-12% Nupage SDS-gel and probed with anti-MARK2 pT595. An untransfected HEK293 cell lysate was used as a negative control (lane 2). MW markers are shown for size comparison (lane 1). PKC-zeta appears to be involved in the phosphorylation of T595 on MARK2 as increased amounts of phosphospecific staining are observed in lysates from cells transfected with both MARK2 and PKCzeta.