

Anti-Phospho-MARK2 (Thr595)

Rabbit Polyclonal Antibody

Catalog # **M44-65R**

Lot # B3216-56

Cited Applications

ELISA, IF, WB

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity

Recognizes the human MARK2 protein phosphorylated at Threonine 595

Cross Reactivity

Human, Dog, Bovine, Mouse and Rat

Host/Isotype/Clone#

Rabbit, IgG

Immunogen

The antibody was produced against synthesized peptide corresponding to amino acids surrounding phosphorylated Thr595 of human MARK2 isoform α .

Formulation

0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 + 0.01% (w/v) Sodium Azide

Stability

1yr at -20°C from date of shipment

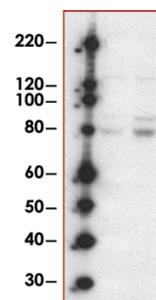
Scientific Background

MARK2 or microtubule affinity-regulating kinase 2 is a member of the Par-1 family of serine/threonine protein kinases. MARK2 is an important regulator of cell polarity in epithelial and neuronal cells and controls the stability of microtubules through phosphorylation and inactivation of several microtubule-associated proteins (1). MARK2 is a key target of *H. pylori* CagA in the disorganization of gastric epithelial architecture underlying mucosal damage, inflammation, and carcinogenesis (2). MARK2 phosphorylates kinesin-like motor protein GAKIN/KIF13B to regulate axon formation. MARK2 function in the establishment of T cell polarity following engagement to an APC.

References:

1. Yoshimura, Y. et.al: Polarity-regulating kinase partitioning-defective 1/microtubule affinity-regulating kinase 2 negatively regulates development of dendrites on hippocampal neurons. *J. Neurosci.* 27:13098-13107, 2010.
2. Saadat, I. et.al: Helicobacter pylori CagA targets PAR1/MARK kinase to disrupt epithelial cell polarity. *Nature* 447: 330-333, 2007.

Sample Data



Western Blot of Anti-Phospho-MARK2 (Thr595) (1:500 dilution). Lane 1: wild type Jurkat cells. Lane 2: wild type Jurkat cells stimulated with CD3/CD28 (T-cell receptor stimulation). Load: 35 µg per lane.

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Purification	Immunoaffinity chromatography
Stability	1yr at -20°C from date of shipment
Storage & Shipping	Store product at -20°C . For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs.

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