MARK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MARK, Polyclonal Antibody
Full Product Name	MARK, CT (MARK1, KIAA1477, MARK, Serine/threonine-protein kinase MARK1, MAP/microtubule affinity-regulating kinase 1, PAR1 homolog c) (MaxLight 550)
Product Gene Name	anti-MARK antibody
Product Synonym Gene Name	MARK1
Product Synonym Names	MARK1; KIAA1477; MARK; Serine/threonine-protein kinase MARK1; MAP/microtubule affinity-regulating kinase 1; PAR1 homolog c
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	84,911 Da
OMIM	606511
3D Structure	ModBase 3D Structure for Q9P0L2
Immunogen	MARK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human MARK.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-MARK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-MARK antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-MARK antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-MARK antibody	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) consists of 50 kinases related to the mitogen-activated protein kinase (MAPK) cascade families (Ste7/MAP2K, Ste11/MAP3K, and Ste20/MAP4K). MAP kinase cascades, consisting of a MAPK and one or more upstream regulatory kinases (MAPKKs) have been best characterized in the yeast pheromone response pathway. Pheromones bind to Ste cell surface receptors and activate yeast MAPK pathway.
Product References and Citations for anti-MARK antibody	Drewes, G., et al., Cell 89(2):297-308 (1997).
Other Notes	Small volumes of anti-MARK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MARK purchase	MBS6319030 is an antibody targeting MARK. Also known as MARK, CT (MARK1, KIAA1477, MARK, Serine/threonine-protein kinase MARK1, MAP/microtubule affinity-regulating kinase 1, PAR1 homolog c) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MARK. It may not necessarily be applicable to this product.

NCBI GI #	153791472
NCBI GeneID	4139
NCBI Accession #	NP_061120
UniProt Primary Accession #	Q9P0L2
UniProt Secondary Accession #	Q2HIY1; Q5VTF9; Q5VTG0; Q96SW9; Q9P251; D3DTB0; D3DTB1
UniProt Related Accession #	Q9P0L2
GenBank Nucleotide #	NM_018650
NCBI Official Full Name	serine/threonine-protein kinase MARK1 isoform 2
NCBI Official Synonym Full Names	MAP/microtubule affinity-regulating kinase 1
NCBI Official Symbol	MARK1
NCBI Official Synonym Symbols	MARK; Par1c; Par-1c
UniProt Protein Name	Serine/threonine-protein kinase MARK1
UniProt Synonym Protein Names	MAP/microtubule affinity-regulating kinase 1; PAR1 homolog c; Par-1c; Par1c
Protein Family	Probable serine/threonine-protein kinase
UniProt Gene Name	MARK1
UniProt Synonym Gene Names	Par-1c; Par1c
UniProt Entry Name	MARK1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase MARK1; PAR1 homolog c

UniProt Comments for MARK	MARK1: a member of the CAMKL family of protein kinases. The MARK group of kinases is apparently involved in the control of cell polarity, microtubule stability and cancer. MARK1 forms a tight association with Tau in neurofibrillary tangles in Alzheimer disease tissue. Protein type: Protein kinase, Ser/Thr (non-receptor); Kinase, protein; EC 2.7.11.26; EC 2.7.11.1; Protein kinase, CAMK; CAMK group; CAMKL family; MARK subfamily Chromosomal Location of Human Ortholog: 1q41 Cellular Component: microtubule cytoskeleton; cytoskeleton; cytoplasm; plasma membrane Molecular Function: protein serine/threonine kinase activity; phosphatidylinositol-4,5-bisphosphate binding; phosphatidylserine binding; tau-protein kinase activity; magnesium ion binding; ATP binding Biological Process: Wnt receptor signaling pathway; neuron migration; cytoskeleton organization and biogenesis; protein amino acid phosphorylation
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