LMTK2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	LMTK2, Monoclonal Antibody
Full Product Name	LMTK2 (Lemur Tyrosine Kinase 2, LMR2, Apoptosis-associated Tyrosine Kinase 2, AATYK2, Brain-enriched Kinase, BREK, hBREK, CDK5/p35-regulated Kinase, CPRK, FLJ46659, KIAA1079, Kinase/Phosphatase/Inhibitor 2, KPI2, KPI-2, Serine/threonine-protein Kinase LMT
Product Gene Name	anti-LMTK2 antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	3G1
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human LMTK2.
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: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	610989
3D Structure	ModBase 3D Structure for Q8IWU2
Immunogen	Partial recombinant corresponding to aa1181-1280 from LMTK2 (NP_055731) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	EPAQTGVPQQVHPTEDEASSPWSVLNAELSSGDDFETQDDRPCTLASTGTNTNELLAYTNSALDKSLSSHSEGPKLKEPDIEGKYLGKLGVSGMLDLSE
Conjugate	MaxLight490
Product Categories/Family for anti-LMTK2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-LMTK2 antibody	FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-LMTK2 antibody	IHC-P: 0.7ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-LMTK2 antibody	MBS6201661 is an antibody targeting LMTK2. Also known as LMTK2 (Lemur Tyrosine Kinase 2, LMR2, Apoptosis-associated Tyrosine Kinase 2, AATYK2, Brain-enriched Kinase, BREK, hBREK, CDK5/p35-regulated Kinase, CPRK, FLJ46659, KIAA1079, Kinase/Phosphatase/Inhibitor 2, KPI2, KPI-2, Serine/threonine-protein Kinase LMT. Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-LMTK2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LMTK2. It may not necessarily be applicable to this product.

NCBI GI #	38016937
NCBI Accession #	NP_055731
UniProt Primary Accession #	Q8IWU2
GenBank Nucleotide #	NM_014916
NCBI Official Full Name	serine/threonine-protein kinase LMTK2
UniProt Protein Name	Serine/threonine-protein kinase LMTK2
UniProt Synonym Protein Names	Apoptosis-associated tyrosine kinase 2; Brain-enriched kinase; hBREK; CDK5/p35-regulated kinase; CPRK; Kinase/phosphatase/inhibitor 2; Lemur tyrosine kinase 2; Serine/threonine-protein kinase KPI-2
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	LMTK2
UniProt Synonym Gene Names	AATYK2; BREK; KIAA1079; KPI2; LMR2; hBREK; CPRK
UniProt Entry Name	LMTK2_HUMAN
UniProt Comments for LMTK2	Lmr2: a tyrosine kinase of the Lmr family that apparently phosphorylates Serine and Threonine residues. Associates with PP1C and Inh2 to form a regulatory complex that localizes to membranes. Enriched in brain and muscle. Inhibited in living cells by addition of nerve growth factor or serum. Appears to be inhibited by Cdk5/p35. Protein type: Membrane protein, multi-pass; Protein kinase, tyrosine (receptor); Protein kinase, TK; Membrane protein, integral; Kinase, protein; EC 2.7.11.1; TK group; Lmr family Chromosomal Location of Human Ortholog: 7q21.3 Cellular Component: Golgi apparatus; recycling endosome; perinuclear region of cytoplasm; early endosome; integral to membrane Molecular Function: protein serine/threonine kinase activity; protein binding; protein phosphatase inhibitor activity; ATP binding Biological Process: receptor recycling; peptidyl-serine phosphorylation; early endosome to late endosome transport; protein amino acid autophosphorylation; negative regulation of catalytic activity; peptidyl-threonine phosphorylation; transferrin transport; endocytic recycling; protein amino acid phosphorylation
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