



Anti-LMTK2 (aa 1181-1280) polyclonal antibody (DPAB-DC1006)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene belongs to the protein kinase superfamily and the protein tyrosine kinase family. It contains N-terminal transmembrane helices and a long C-terminal cytoplasmic tail with serine/threonine/tyrosine kinase activity. This protein interacts with several other proteins, such as Inhibitor-2 (Inh2), protein phosphatase-1 (PP1C), p35, and myosin VI. It phosphorylates other proteins, and is itself also phosphorylated when interacting with cyclin-dependent kinase 5 (cdk5)/p35 complex. This protein involves in nerve growth factor (NGF)-TrkA signalling, and also plays a critical role in endosomal membrane trafficking. Mouse studies suggested an essential role of this protein in spermatogenesis.
Immunogen	LMTK2 (NP_055731, 1181 a.a. ~ 1280 a.a) partial recombinant protein with GST tag. The sequence is EPAQTGVPPQQVHPTDEASSPWSVLNAELSSGDDFETQDDRPCTLASTGTNTNELLAYTN SALDKSLSSHSEGPKLKEPDIEGKYLGLGVSGMLDLS
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	LMTK2 lemur tyrosine kinase 2 [Homo sapiens (human)]
Official Symbol	LMTK2
Synonyms	LMTK2; lemur tyrosine kinase 2; BREK; KPI2; LMR2; cprk; KPI-2; AATYK2; PPP1R100; serine/threonine-protein kinase LMTK2; hBREK; brain-enriched kinase; CDK5/p35-regulated kinase; kinase phosphatase inhibitor 2; kinase/phosphatase/inhibitor 2; serine/threonine-protein kinase KPI-2; apoptosis-associated tyrosine kinase 2; protein phosphatase 1, regulatory subunit 100; cyclin-dependent kinase 5/p35-regulated kinase;
Entrez Gene ID	22853
Protein Refseq	NP_055731
UniProt ID	Q8IWU2
Chromosome Location	7q21.3
Function	ATP binding; myosin VI binding; protein binding; protein phosphatase inhibitor activity