



## 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

<b>Antigen Description</b>	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.
<b>Immunogen</b>	LMTK2 (NP_055731, 1181 a.a. ~ 1280 a.a) partial recombinant protein with GST tag. The sequence is  EPAQTGVPQQVHPTEDEAASSPWSVLNAELSSGDDFETQDDRPCTLASTGTNTNELLAYTN SALDKSLSHHSEGPKLKEPDIEGKYLGKLGVSGMLDLSED
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

# GENE INFORMATION

Gene Name	<a href="#">LMTK2 lemur tyrosine kinase 2 [ Homo sapiens (human) ]</a>
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	<a href="#">22853</a>
Protein Refseq	<a href="#">NP_055731</a>
UniProt ID	<a href="#">Q8IWU2</a>
Chromosome Location	7q21.3
Function	ATP binding; myosin VI binding; protein binding; protein phosphatase inhibitor activity