

**LMTK2 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7140c****Specification**

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**LMTK2 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q8IWU2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	164900
Antigen Region	668-697

**LMTK2 Antibody (Center) - Additional Information****Gene ID** 22853**Other Names**

Serine/threonine-protein kinase LMTK2, 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, LMTK2, AATYK2, BREK, KIAA1079, KPI2, LMR2

**Target/Specificity**

This LMTK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 668-697 amino acids from the Central region of human LMTK2.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

LMTK2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**LMTK2 Antibody (Center) - Protein Information****Name** LMTK2**Synonyms** AATYK2, BREK, KIAA1079, KPI2, LMR2

**Function** Phosphorylates PPP1C, phosphorylase b and CFTR.

**Cellular Location**

Membrane; Multi- pass membrane protein

**Tissue Location**

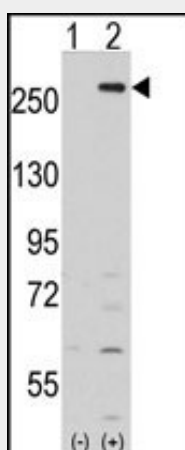
Mainly expressed in skeletal muscle, and weakly in brain and pancreas.

**LMTK2 Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**LMTK2 Antibody (Center) - Images**



Western blot analysis of LMTK2 (arrow) using rabbit polyclonal LMTK2 Antibody (Center) (Cat.#AP7140c).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the LMTK2 gene (Lane 2) (Origene Technologies).

**LMTK2 Antibody (Center) - Background**

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the  $\gamma$  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 tyrosine kinase (TK) group is mainly involved in the regulation of cell-cell interactions such as differentiation, adhesion, motility and death. There are currently about 90 TK genes sequenced, 58 are of receptor protein TK (e.g. EGFR, EPH, FGFR, PDGFR, TRK, and VEGFR families), and 32 of cytosolic TK (e.g. ABL, FAK, JAK, and SRC families).

**LMTK2 Antibody (Center) - References**

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Hillier, L.W., et al., Nature 424(6945):157-164 (2003).  
Scherer, S.W., et al., Science 300(5620):767-772 (2003).  
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Wang, H., et al., J. Biol. Chem. 277(51):49605-49612 (2002).