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LMTK2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7140a

Specification

LMTK2 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q8IWU2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**164900**
Antigen Region	**70-100**

LMTK2 Antibody (N-term) - 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 70-100 amino acids from the N-terminal region of human LMTK2.

Dilution
WB~~1:1000
IHC-P~~1:50~100

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 (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LMTK2 Antibody (N-term) - Protein Information

Name LMTK2

Synonyms AATYK2, BREK, KIAA1079, KPI2, LMR2

Function Phosphorylates PPP1C, phosphorylase b and CFTR.

Cellular Location
Membrane; Multi- pass membrane protein

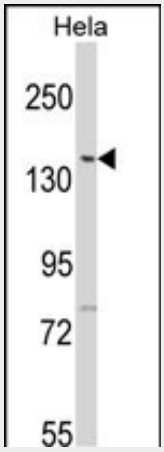
Tissue Location
Mainly expressed in skeletal muscle, and weakly in brain and pancreas.

LMTK2 Antibody (N-term) - Protocols

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

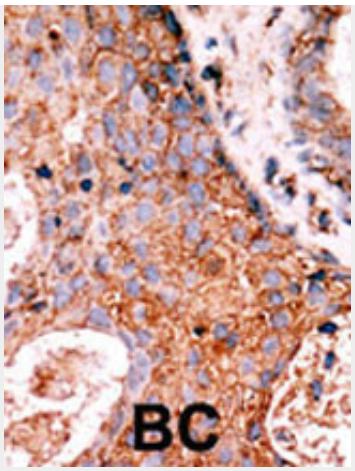
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LMTK2 Antibody (N-term) - Images



Western blot analysis of LTK2 N-term (Cat. #AP7140a) in Hela cell line lysates (35ug/lane). LTK2 (arrow) was detected using the purified Pab.

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Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

LMTK2 Antibody (N-term) - Background

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 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 (N-term) - 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).