

LMTK3 Polyclonal Antibody

Catalog # AP70759

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q96Q04
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	153661

Additional Information

Gene ID	114783
Other Names	LMTK3; KIAA1883; TYKLM3; Serine/threonine-protein kinase LMTK3; Lemur tyrosine kinase 3
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

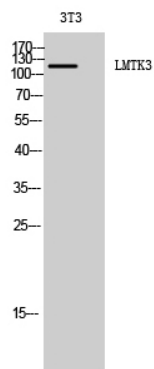
Protein Information

Name	LMTK3
Synonyms	KIAA1883, TYKLM3
Function	Protein kinase which phosphorylates ESR1 (in vitro) and protects it against proteasomal degradation. May also regulate ESR1 levels indirectly via a PKC-AKT-FOXO3 pathway where it decreases the activity of PKC and the phosphorylation of AKT, thereby increasing binding of transcriptional activator FOXO3 to the ESR1 promoter and increasing ESR1 transcription (PubMed: 21602804). Involved in endocytic trafficking of N-methyl-D-aspartate receptors (NMDAR) in neurons (By similarity).
Cellular Location	Membrane {ECO:0000250 UniProtKB:Q5XJV6}; Single-pass membrane protein {ECO:0000250 UniProtKB:Q5XJV6}. Cell projection, axon {ECO:0000250 UniProtKB:Q5XJV6}. Cell projection, dendrite {ECO:0000250 UniProtKB:Q5XJV6}. Golgi apparatus membrane {ECO:0000250 UniProtKB:Q5XJV6}. Note=Punctate pattern in cell projections

Background

Protein kinase which phosphorylates ESR1 (in vitro) and protects it against proteasomal degradation. May also regulate ESR1 levels indirectly via a PKC-AKT-FOXO3 pathway where it decreases the activity of PKC and the phosphorylation of AKT, thereby increasing binding of transcriptional activator FOXO3 to the ESR1 promoter and increasing ESR1 transcription (PubMed:[21602804](#)). Involved in endocytic trafficking of N-methyl- D-aspartate receptors (NMDAR) in neurons (By similarity).

Images



Western Blot analysis of 3T3 cells using LMTK3 Polyclonal Antibody diluted at 1 : 2000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.