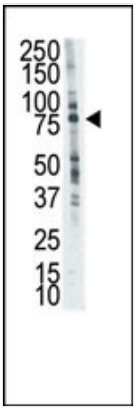
LTK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LTK, Polyclonal Antibody
Full Product Name	LTK Antibody (N-term)
Product Gene Name	anti-LTK antibody
Product Synonym Names	Leukocyte tyrosine kinase receptor; Protein tyrosine kinase 1; LTK; TYK1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/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.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 1.57 (lot specific)
Specificity	This LTK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 42-72 amino acids from the N-terminal region of human LTK.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	LTK peptide (MBS9227132) is used for blocking the activity of LTK antibody (MBS9209588)
Molecular Weight	91681
Immunogen Sequence Positions	42-72
OMIM	151520
3D Structure	ModBase 3D Structure for P29376
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-LTK antibody	Metabolism; Signal Transduction
Applications Tested/Suitable for anti-LTK antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-LTK antibody	WB~~1:1000
Related Product Information for anti-LTK antibody	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).

Product References and Citations for anti-LTK antibody	Toyoshima, H., et al., Proc. Natl. Acad. Sci. U.S.A. 90(12):5404-5408 (1993). Krolewski, J.J., et al., EMBO J. 10(10):2911-2919 (1991). Maru, Y., et al., Oncogene Res. 5(3):199-204 (1990).
Other Notes	Small volumes of anti-LTK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LTK purchase	MBS9209588 is an antibody targeting LTK. Also known as LTK Antibody (N-term). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-LTK antibody
The anti-LTK Pab is used in Western blot to detect LTK in placenta cell lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LTK. It may not necessarily be applicable to this product.

NCBI GI #	208879423
NCBI GeneID	4058
NCBI Accession #	NP_001129157.1
NCBI Related Accession #	NP_002335.2; NP_996844.1
UniProt Primary Accession #	P29376
UniProt Secondary Accession #	A6NNJ8; B4DL89; E9PFX4
UniProt Related Accession #	P29376
GenBank Nucleotide #	NM_001135685.1
NCBI Official Full Name	leukocyte tyrosine kinase receptor isoform 3
NCBI Official Synonym Full Names	leukocyte receptor tyrosine kinase
NCBI Official Symbol	LTK
NCBI Official Synonym Symbols	TYK1
UniProt Protein Name	Leukocyte tyrosine kinase receptor
UniProt Synonym Protein Names	Protein tyrosine kinase 1
Protein Family	Leukocyte tyrosine kinase receptor
UniProt Gene Name	LTK
UniProt Synonym Gene Names	TYK1
UniProt Entry Name	LTK_HUMAN

NCBI Protein Information	leukocyte tyrosine kinase receptor
NCBI Summary for LTK	The protein encoded by this gene is a member of the ros/insulin receptor family of tyrosine kinases. Tyrosine-specific phosphorylation of proteins is a key to the control of diverse pathways leading to cell growth and differentiation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]
UniProt Comments for LTK	LTK: Orphan receptor with a tyrosine-protein kinase activity. The exact function of this protein is not known. Studies with chimeric proteins (replacing its extracellular region with that of several known growth factor receptors, such as EGFR and CSFIR) demonstrate its ability to promote growth and specifically neurite outgrowth, and cell survival. Signaling appears to involve the PI3 kinase pathway. Involved in regulation of the secretory pathway involving endoplasmic reticulum (ER) export sites (ERESs) and ER to Golgi transport. Homodimer when bound to ligand (Probable). Part a complex including LTK, TNK2 and GRB2, in which GRB2 promotes LTK recruitment by TNK2. Expressed in non-hematopoietic cell lines and T- and B-cell lines. Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Protein kinase, TK; EC 2.7.10.1; Protein kinase, tyrosine (receptor); Kinase, protein; TK group; Alk family Chromosomal Location of Human Ortholog: 15q15.1-q21.1 Cellular Component: membrane; integral to plasma membrane; plasma membrane Molecular Function: protein-tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; ATP binding; protein kinase activity Biological Process: cell proliferation; phosphoinositide 3-kinase cascade; peptidyl-tyrosine phosphorylation; signal transduction; protein amino acid phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway; negative regulation of apoptosis
Research Articles on LTK	**1.** Only two related secreted factors, FAM150A and FAM150B (family with sequence similarity 150 member A and member B), stimulated LTK phosphorylation.
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