

Mouse Ltk Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP14152b**Specification**

Mouse Ltk Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P08923](#)**Mouse Ltk Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 17005**Other Names**

Leukocyte tyrosine kinase receptor, Ltk

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP14152b was selected from the C-term region of Mouse Ltk. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Ltk Antibody (C-term) Blocking peptide - Protein Information**Name** Ltk {ECO:0000303|PubMed:2357970}**Function**

Receptor with a tyrosine-protein kinase activity. Following activation by ALKAL1 or ALKAL2 ligands at the cell surface, transduces an extracellular signal into an intracellular response. Ligand-binding to the extracellular domain induces tyrosine kinase activation, leading to activation of the mitogen-activated protein kinase (MAPK) pathway (By similarity). Phosphorylates almost exclusively at the first tyrosine of the Y-x-x-x-Y-Y motif (By similarity). The exact function of this protein is not known; studies with chimeric proteins demonstrate its ability to promote growth and specifically neurite outgrowth, and cell survival. Involved in regulation of the secretory pathway involving endoplasmic reticulum (ER) export sites (ERESs) and ER to Golgi transport (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein [Isoform B]: Endoplasmic reticulum. Note=Retained in the endoplasmic reticulum.

Tissue Location

Subsets of lymphoid and neuronal cells.

Mouse Ltk Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Ltk Antibody (C-term) Blocking peptide - Images**Mouse Ltk Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene is a member of the tyrosine kinase family of tyrosine kinases. Tyrosine-specific phosphorylation of proteins is a key to the control of diverse pathways leading to cell growth and differentiation. Four alternatively spliced transcript variants encoding different isoforms have been described for this gene. These transcripts are expressed in a tissue-specific manner in lymphocytes, brain and neuroblastoma cells, and the encoded isoforms exhibit different subcellular localization. The lymphocyte and brain specific variants initiate translation at non-AUG (CUG) start codons.

Mouse Ltk Antibody (C-term) Blocking peptide - References

Li, J., et al. J. Biol. Chem. 283(49):34260-34272(2008) Yu, X., et al. J. Immunol. 177(10):7042-7049(2006) Li, N., et al. Hum. Mol. Genet. 13(2):171-179(2004) Thut, C.J., et al. Dev. Biol. 231(1):63-76(2001) Robinson, D.R., et al. Oncogene 19(49):5548-5557(2000)