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LTK Antibody

Rabbit mAb
Catalog # AP92907

Product Information

Application	WB, IHC
Primary Accession	P29376
Reactivity	Human
Clonality	Monoclonal
Other Names	Ltk; TYK1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	91681

Additional Information

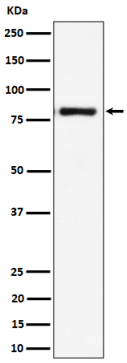
Dilution	WB 1:500~1:2000 IHC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human LTK
Description	Orphan receptor with a tyrosine-protein kinase activity. The exact function of this protein is not known. Studies with chimeric proteins (replacing its extracellular 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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	LTK {ECO:0000303|PubMed:1655406, ECO:0000312|HGNC:HGNC:6721}
Function	Receptor with a tyrosine-protein kinase activity (PubMed: 10445845, PubMed:20548102, PubMed:30061385). Following activation by ALKAL1 or ALKAL2 ligands at the cell surface, transduces an extracellular signal into an intracellular response (PubMed:30061385, PubMed:34646012). Ligand-binding to the extracellular domain induces tyrosine kinase activation, leading to activation of the mitogen-activated protein kinase (MAPK) pathway (PubMed:20548102). 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 (PubMed:18849880, PubMed:9223670). Involved in regulation of the secretory pathway involving endoplasmic reticulum (ER) export sites (ERESs) and ER to Golgi transport (PubMed:20548102).

Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed in non-hematopoietic cell lines and T- and B-cell lines.

Images



Western blot analysis of LTK expression in Raji cell lysate.

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