

LTK Antibody (aa800-864)
Rabbit Polyclonal Antibody
Catalog # ALS12093**Specification**

LTK Antibody (aa800-864) - Product Information

Application	IHC
Primary Accession	P29376
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	92kDa KDa

LTK Antibody (aa800-864) - Additional Information**Gene ID** 4058**Other Names**

Leukocyte tyrosine kinase receptor, 2.7.10.1, Protein tyrosine kinase 1, LTK, TYK1

Target/Specificity

A portion of amino acids 800-864 of human LTK was used as the immunogen.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

LTK Antibody (aa800-864) is for research use only and not for use in diagnostic or therapeutic procedures.

LTK Antibody (aa800-864) - 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:9223670, PubMed:18849880). 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

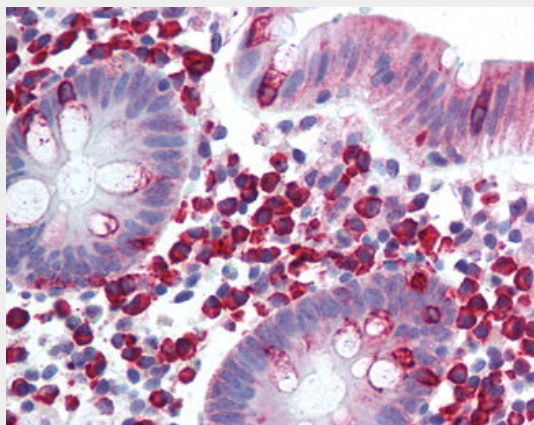
Tissue Location

Expressed in non-hematopoietic cell lines and T- and B-cell lines.

LTK Antibody (aa800-864) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LTK Antibody (aa800-864) - Images

Anti-LTK antibody IHC of human colon.

LTK Antibody (aa800-864) - Background

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.

LTK Antibody (aa800-864) - References

Toyoshima H., et al. Proc. Natl. Acad. Sci. U.S.A. 90:5404-5408(1993).

Krolewski J.J.,et al.EMBO J. 10:2911-2919(1991).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Zody M.C.,et al.Nature 440:671-675(2006).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.