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# LTK Antibody
**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP53353**

## Specification

### LTK Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P29376 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **92 KDa** |
| Antigen Region | **219-268** |

### LTK Antibody - Additional Information

**Gene ID** 4058

**Dilution**
WB~~ 1:1000

**Format**
Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol

**Storage**
Store at -20 °C.Stable for 12 months from date of receipt

### LTK Antibody - Protein Information

**Name** LTK {ECO:0000303|PubMed:1655406, ECO:0000312|HGNC:HGNC:6721}

**Function**
Receptor with a tyrosine-protein kinase activity (PubMed:<a href="http://www.uniprot.org/citations/10445845" target="_blank">10445845</a>, PubMed:<a href="http://www.uniprot.org/citations/20548102" target="_blank">20548102</a>, PubMed:<a href="http://www.uniprot.org/citations/30061385" target="_blank">30061385</a>). Following activation by ALKAL1 or ALKAL2 ligands at the cell surface, transduces an extracellular signal into an intracellular response (PubMed:<a href="http://www.uniprot.org/citations/30061385" target="_blank">30061385</a>, PubMed:<a href="http://www.uniprot.org/citations/34646012" target="_blank">34646012</a>). Ligand-binding to the extracellular domain induces tyrosine kinase activation, leading to activation of the mitogen-activated protein kinase (MAPK) pathway (PubMed:<a href="http://www.uniprot.org/citations/20548102" target="_blank">20548102</a>). 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:<a href="http://www.uniprot.org/citations/9223670" target="_blank">9223670</a>, PubMed:<a href="http://www.uniprot.org/citations/18849880" target="_blank">18849880</a>). Involved in

regulation of the secretory pathway involving endoplasmic reticulum (ER) export sites (ERESs) and ER to Golgi transport (PubMed:<a href="http://www.uniprot.org/citations/20548102" target="_blank">20548102</a>).

**Cellular Location**
Cell membrane; Single-pass type I membrane protein

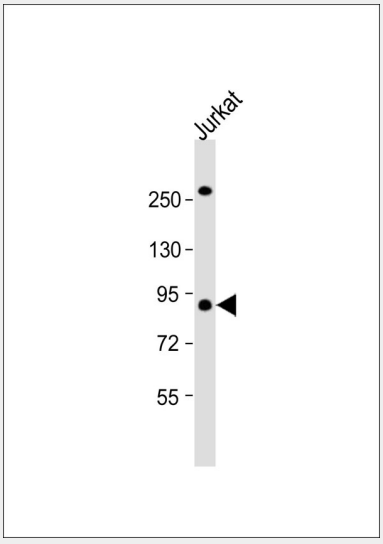
**Tissue Location**
Expressed in non-hematopoietic cell lines and T- and B-cell lines.

## LTK Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## LTK Antibody - Images




Anti-LTK Antibody at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution. Predicted band size : 92 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## LTK Antibody - 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.

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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.