

Anti-TXK / RLK Antibody (aa515-527)
Goat Anti Human Polyclonal Antibody
Catalog # ALS17857**Specification**

Anti-TXK / RLK Antibody (aa515-527) - Product Information

Application	IHC-P, E
Primary Accession	P42681
Predicted	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	61258

Anti-TXK / RLK Antibody (aa515-527) - Additional Information**Gene ID** 7294Alias Symbol **TXK****Other Names**

TXK, PSCTK5, PTK4 protein tyrosine kinase 4, Resting lymphocyte kinase, RLK, TKL, Tyrosine kinase, Tyrosine-protein kinase TXK, Protein-tyrosine kinase 4, BTKL, PTK4, TXK tyrosine kinase

Target/Specificity

Human TXK.

Reconstitution & Storage

Immunoaffinity purified

Precautions

Anti-TXK / RLK Antibody (aa515-527) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-TXK / RLK Antibody (aa515-527) - Protein Information**Name** TXK**Synonyms** PTK4, RLK**Function**

Non-receptor tyrosine kinase that plays a redundant role with ITK in regulation of the adaptive immune response. Regulates the development, function and differentiation of conventional T-cells and nonconventional NKT-cells. When antigen presenting cells (APC) activate T-cell receptor (TCR), a series of phosphorylation leads to the recruitment of TXK to the cell membrane, where it is phosphorylated at Tyr-420. Phosphorylation leads to TXK full activation. Contributes also to signaling from many receptors and participates in multiple downstream pathways, including regulation of the actin cytoskeleton. Like ITK, can phosphorylate PLCG1, leading to its localization in lipid rafts and activation, followed by subsequent cleavage of its substrates. In turn, the endoplasmic reticulum releases calcium in the cytoplasm and the nuclear activator of activated

T-cells (NFAT) translocates into the nucleus to perform its transcriptional duty. Plays a role in the positive regulation of IFNG transcription in T- helper 1 cells as part of an IFNG promoter-binding complex with PARP1 and EEF1A1 (PubMed:11859127, PubMed:17177976). Within the complex, phosphorylates both PARP1 and EEF1A1 (PubMed:17177976). Phosphorylates also key sites in LCP2 leading to the up-regulation of Th1 preferred cytokine IL-2. Phosphorylates 'Tyr-201' of CTLA4 which leads to the association of PI-3 kinase with the CTLA4 receptor.

Cellular Location

Cytoplasm. Nucleus. Cell membrane; Peripheral membrane protein. Note=Localizes in the vicinity of cell surface receptors in the plasma membrane after receptor stimulation Translocates into the nucleus and enhances IFN-gamma gene transcription in T-cells

Tissue Location

Expressed in T-cells and some myeloid cell lines. Expressed in Th1/Th0 cells with IFN-gamma-producing potential

Anti-TXK / RLK Antibody (aa515-527) - 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](#)

Anti-TXK / RLK Antibody (aa515-527) - Images