

ARG64893
anti-TXK antibodyPackage: 100 µg
Store at: -20°C

Summary

| | |
|---------------------|--|
| Product Description | Goat Polyclonal antibody recognizes TXK |
| Tested Reactivity | Hu |
| Predict Reactivity | Ms, Cow, Dog, Pig |
| Tested Application | IHC-P, WB |
| Host | Goat |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | TXK |
| Immunogen | C-ELLRAVTEIAETW |
| Conjugation | Un-conjugated |
| Alternate Names | Protein-tyrosine kinase 4; Resting lymphocyte kinase; PTK4; RLK; PSCTK5; TKL; Tyrosine-protein kinase TXK; EC 2.7.10.2; BTKL |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|---------------|
| | IHC-P | 5 µg/ml |
| | WB | 0.3 - 1 µg/ml |

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

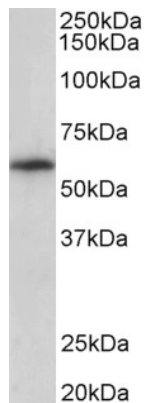
| | |
|---------------------|--|
| Form | Liquid |
| Purification | Purified from goat serum by antigen affinity chromatography. |
| Buffer | Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 0.5% BSA |
| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

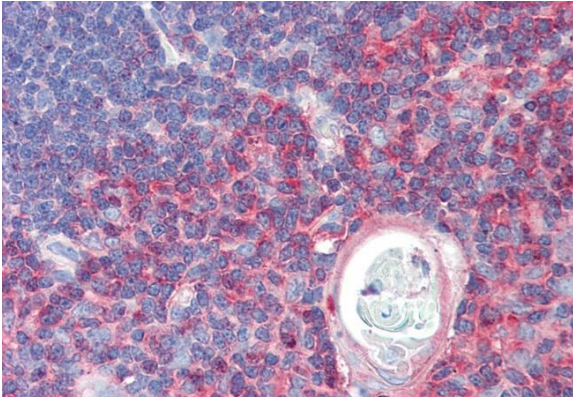
| | |
|----------------|--|
| Database links | GeneID: 7294 Human Swiss-port # P42681 Human |
| Gene Symbol | TXK |
| Gene Full Name | TXK tyrosine kinase |
| Function | Non-receptor tyrosine kinase that plays a redundant role with ITK in regulation of the adaptive immune response. Regulates the development, 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 lead 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. With PARP1 and EEF1A1, TXK forms a complex that acts as a T-helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFNG to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production. Phosphorylates both PARP1 and EEF1A1. 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. [UniProt] |
| Research Area | Gene Regulation antibody; Immune System antibody; Signaling Transduction antibody |
| Calculated Mw | 61 kDa |
| PTM | Phosphorylated at Tyr-420 by FYN. Autophosphorylation at Tyr-91 is critical for the activation of TXK, leading to the up-regulation of IFN-gamma gene transcription. The cysteine string at the N-terminus is palmitoylated and required for the proper subcellular location. |

Images



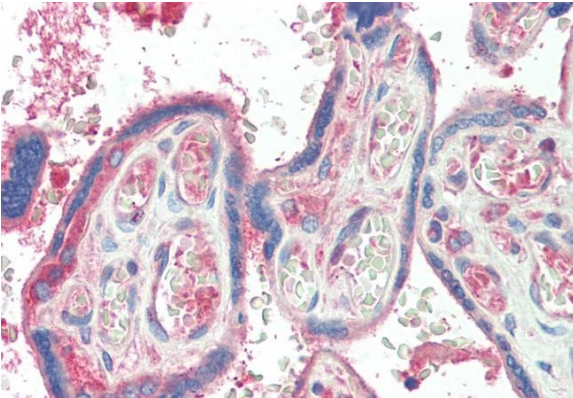
ARG64893 anti-TXK antibody WB image

Western Blot: Human Tonsil lysate (35 µg protein in RIPA buffer) stained with ARG64893 anti-TXK antibody at 0.3 µg/ml dilution.



ARG64893 anti-TXK antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human thymus tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64893 anti-TXK antibody at 5 $\mu\text{g}/\text{ml}$ dilution followed by AP-staining.



ARG64893 anti-TXK antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human plcenta tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64893 anti-TXK antibody at 5 $\mu\text{g}/\text{ml}$ dilution followed by AP-staining.
