

Datasheet for ABIN7563249

TXK Protein (AA 1-527) (His tag)



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Overview

Quantity:	1 mg
Target:	TXK
Protein Characteristics:	AA 1-527
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TXK protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Txk Protein expressed in mammalian cells.
Sequence:	<p>MILSSYSSFQ SVLCCCCRC SVQKRQVRTQ ISLSREEELS EKHSQRQRPW FAKLMGKTQS</p> <p>NRGGVQPSKR KPLPPLPQEP PDERIQVKAL YDFLPREP GN LALKRAEEYL ILERCDPHWW</p> <p>KADRF GNEG LIPSNYVTEN RLANLEIYEW YHKNITRNQT ERLLRQEAKE GAFIVRDSRH</p> <p>LGSYTISVFT RARRHTQSSI KHYQIKKND S GQWYITERHL FPSVPELIQY HQYNAAGLIS</p> <p>RLRYP IGLLG SCLPATSGFS YEKWEIDPSE LAFVKEIGSG QFGVVHLGEW RAHIPVAIKA</p> <p>INEGSMSEED FIEEAKVMMK LSHSRLVQLY GVCIQKPLY IVTEFMENG C LLDYLRERKG</p> <p>QLQKALLLSM CQDICEGMAY LERSCYIHRD LAARNCLVSS ACVVKISDFG MARYVLDDEY</p> <p>ISSSGAKFPV KWCPPEVFHF NKYSSKSDVW SFGVLMWEVF TEGKMPFENK SNLQVVEAIS</p> <p>QGFRLYRPHL APMTIYRVMY SCWHESPKGR PTFAELLQVL TEIAETW Sequence without tag.</p> <p>The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a</p>

special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

TXK

Alternative Name:

Txk ([TXK Products](#))

Background:

Tyrosine-protein kinase TXK (EC 2.7.10.2) (PTK-RL-18) (Resting lymphocyte 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 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

Target Details

cells as part of an IFNG promoter-binding complex with PARP1 and EEF1A1 (By similarity). Within the complex, phosphorylates both PARP1 and EEF1A1 (By similarity). 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. {ECO:0000250|UniProtKB:P42681, ECO:0000269|PubMed:10562318, ECO:0000269|PubMed:10587356, ECO:0000269|PubMed:10660534, ECO:0000269|PubMed:18941202}.

Molecular Weight: 61.1 kDa

UniProt: [P42682](#)

Pathways: [Regulation of Leukocyte Mediated Immunity, Hepatitis C](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months