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# Datasheet for ABIN7174078

## anti-TXK antibody (AA 32-83) (FITC)

## Overview

Quantity:	100 μg
Target:	TXK
Binding Specificity:	AA 32-83
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TXK antibody is conjugated to FITC
Application:	Please inquire

#### **Product Details**

Immunogen:	Recombinant Human Tyrosine-protein kinase TXK protein (32-83AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

### Target Details

Target:	TXK
Alternative Name:	TXK (TXK Products)
Background:	Background: 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 Pl-3 kinase with the CTLA4 receptor.

Aliases: BTKL antibody, EC 2.7.10.2 antibody, MGC22473 antibody, Protein-tyrosine kinase 4 antibody, PSCTK5 antibody, PTK4 antibody, Resting lymphocyte kinase antibody, RLK antibody, TKL antibody, TXK antibody, TXK tyrosine kinase antibody, TXK\_HUMAN antibody, Tyrosine protein kinase TXK antibody, Tyrosine-protein kinase TXK antibody

UniProt:

P42681

Pathways:

Regulation of Leukocyte Mediated Immunity, Hepatitis C

#### **Application Details**

Restrictions:

For Research Use only

#### Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C

Storage Comment:

Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.