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Datasheet for ABIN7174079

anti-TXK antibody (AA 32-83) (HRP)

Overview

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

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

Target Details

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.

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

Application Notes: Optimal working dilution should be determined by the investigator.

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.

Handling

Storage: -20 °C, -80 °C

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