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# Datasheet for ABIN7174076 anti-TXK antibody (AA 32-83)

4 Images



### Overview

| Quantity:            | 100 µg  |
|----------------------|---|
| Target:              | ТХК   |
| Binding Specificity: | AA 32-83  |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This TXK antibody is un-conjugated  |
| Application:         | ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF) |

## Product Details

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

## Target Details

| Target:           | ТХК  |
|-------------------|--|
| 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       |

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|           | 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: | Recommended dilution: WB:1:500-1:5000, IHC:1:20-1:200, IF:1:50-1:200,   |
|--------------------|---|
| Restrictions:      | For Research Use only   |
| Handling           |   |
| Format:            | Liquid  |
| Buffer:            | Preservative: 0.03 % Proclin 300<br>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. |

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## Handling

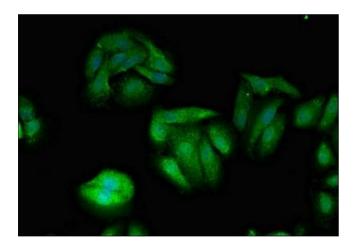
Storage:

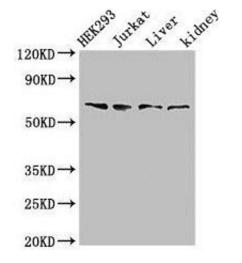
-20 °C,-80 °C

Storage Comment:

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

#### Images



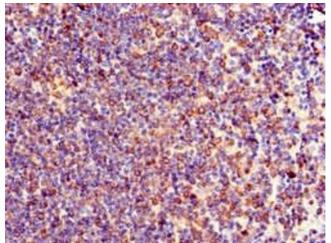


#### Immunofluorescence

**Image 1.** Immunofluorescent analysis of HepG2 cells using ABIN7174076 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

#### Western Blotting

**Image 2.** Western Blot Positive WB detected in: HEK293 whole cell lysate, Jurkat whole cell lysate, Rat liver tissue, Rat kidney tissue All lanes: TXK antibody at 3 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 62 kDa Observed band size: 62 kDa



#### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded human lymph node tissue using ABIN7174076 at dilution of 1:100

Please check the product details page for more images. Overall 4 images are available for ABIN7174076.

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