

Datasheet for ABIN968992  
**anti-BTK antibody**



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3 Images

Overview

Quantity:	100 µL
Target:	BTK
Reactivity:	Human, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This BTK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of BTK expressed in E. coli.
Clone:	7F12H4
Isotype:	IgG1
Purification:	purified

Target Details

Target:	BTK
Alternative Name:	BTK ( <a href="#">BTK Products</a> )
Background:	Description: Brutons tyrosine kinase (BTK) is a member of the BTK/Tec family of cytoplasmic tyrosine kinases. All members of the family contain SH3 and SH2 domains and, with the exception of Txk and Dsrc28C, also contain a pleckstrin homology (PH) and a Tec homology (TH) domain in their amino termini. BTK plays an important role in B cell development.

## Target Details

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Activation of B cells by various ligands is accompanied by BTK membrane translocation mediated by its PH domain binding to phosphatidylinositol-3,4,5-trisphosphate. The membrane located BTK is active and associated with transient phosphorylation of two tyrosine residues, Tyr551 and Tyr223. Tyr551 in the activation loop is transphosphorylated by the Src family tyrosine kinase, leading to autophosphorylation at Tyr223 within the SH3 domain, which is necessary for full activation.

Aliases: BTK

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Molecular Weight: 77 kDa

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Gene ID: 695

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HGNC: 695

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Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [Hormone Transport](#), [Activation of Innate immune Response](#), [Regulation of Leukocyte Mediated Immunity](#), [Production of Molecular Mediator of Immune Response](#), [Toll-Like Receptors Cascades](#), [BCR Signaling](#)

## Application Details

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Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: Ascitic fluid containing 0.03 % sodium azide.

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Preservative: Sodium azide

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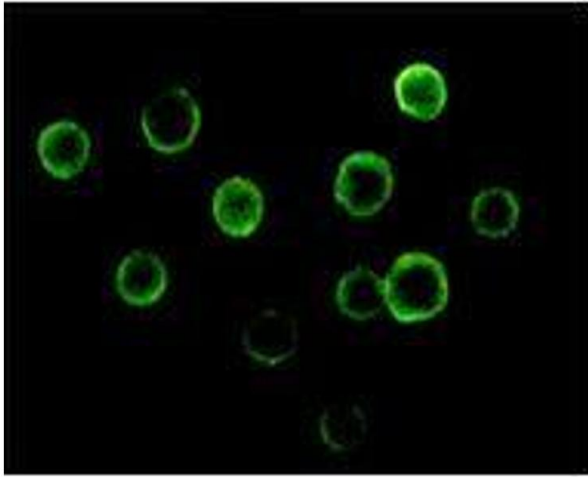
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: 4 °C/-20 °C

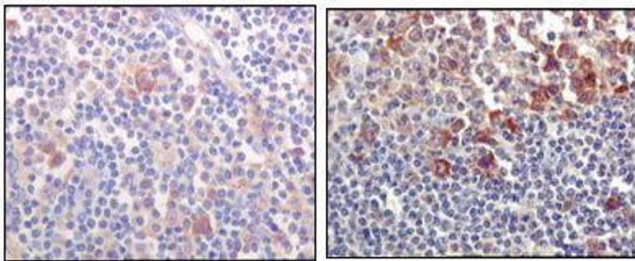
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Storage Comment: 4°C, -20°C for long term storage



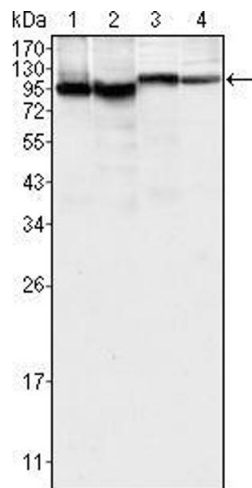
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of Jurkat cells using BTK mouse mAb.



### Immunohistochemistry

**Image 2.** Immunohistochemical analysis of paraffin-embedded human lymph-node tissues (left) and human lymph follicle tissues (right), showing cytoplasmic and membrane localization using BTK mouse mAb with DAB staining.



### Western Blotting

**Image 3.** Western blot analysis using BTK mouse mAb against K562 (1), MCF-7 (2), Jurkat (3) and HEK293 (4) cell lysate.