

## Basic Information

<b>Product Name</b>	Anti-BTK (Phospho-Y223) Antibody (Clone#ECD-2)
<b>Gene Name</b>	BTK
<b>Source</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	human
<b>Tested Application</b>	WB, IP
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
<b>Immunogen</b>	A synthesized peptide derived from human Phospho-BTK (Y223)
<b>Concentration</b>	500 ug/ml
<b>Purification</b>	Affinity-chromatography
<b>Observed MW</b>	76 kDa
<b>Dilution Ratios</b>	Western blot (WB): 1:500-2000 ImmunoPrecipitation (IP):1:20

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

BTK, also known as Bruton's tyrosine kinase, is an enzyme that in humans is encoded by the BTK gene. It is mapped to Xq22.1. BTK plays a crucial role in B cell maturation as well as mast cell activation through the high-affinity IgE receptor. BTK contains a PH domain that binds phosphatidylinositol (3,4,5)-trisphosphate (PIP3). PIP3 binding induces BTK to phosphorylate phospholipase C, which in turn hydrolyzes PIP2, a phosphatidylinositol, into two second messengers, inositol triphosphate (IP3) and diacylglycerol (DAG), which then go on to modulate the activity of downstream proteins during B-cell signalling. This gene also regulates both TLR9 activation and expression in B lymphocytes and is necessary for inhibitory cytokine expression.

## Selected Validation Data

Product datasheet

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Catalog Number: **BM4397**

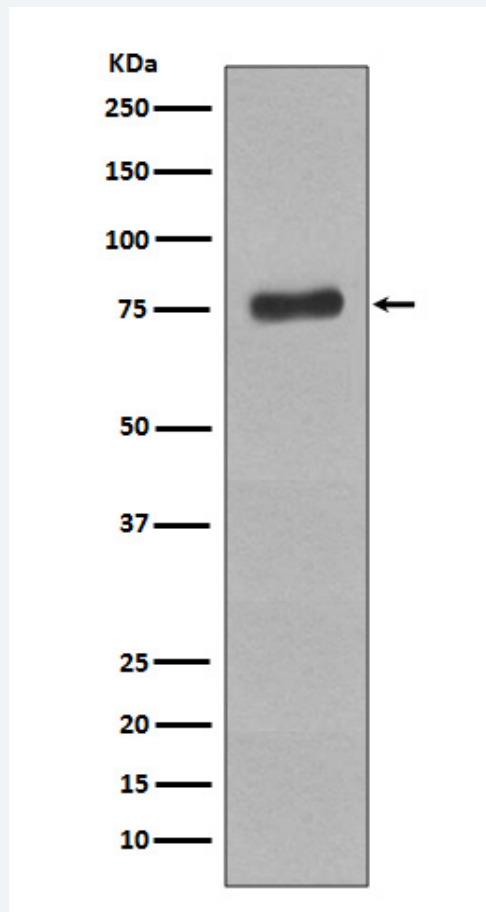
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Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator,  
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Web: [www.boster.com](http://www.boster.com) Phone: 027-67845390 Email: [boster@boster.com](mailto:boster@boster.com)



Western blot analysis of Phospho-BTK (Y223) expression in Raji cell lysate treated with pervanadate.