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Basic Information	
Anti-BTK (Phospho-Y223) Antibody	
ВТК	
Rabbit	
IgG	
human	
WB	
500 ug/ml;Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.	
A synthesized peptide derived from human Phospho-BTK (Y223)	
500 ug/ml	
Affinity-chromatography	
76KD	
Western blot (WB):1:500-2000	

## **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 Anti-BTK (Phospho-Y223) Antibody Catalog Number: BM4397



