

Btk Phospho (pY223)

Rabbit Monoclonal Antibody | Product Data Sheet

Catalog# 2207-1

Quantity: 100ul

Clone ID: EP420Y

Species Cross-reactivity* + Human + Mouse + Rat

Applications: + WB - IHC - ICC + IP - FC

Lot #: Please refer to vial

Molecular Wt.: 77 kDa

UniProt ID: Q06187

Background: Btk (Bruton tyrosine kinase also known as BPK or ATK) is a member of the TEC family of non-receptor protein tyrosine kinase which includes Bmx, Itk and TEC. Btk is composed of a pleckstrin domain, an SH3 and SH2 domain, a catalytic kinase domain and a TEC homology domain (1). Tec family protein tyrosine kinases (TFKs) play a central role in hematopoietic cellular signaling. Initial activation takes place through specific tyrosine phosphorylation situated in the activation loop. Further activation occurs within the SH3 domain via a transphosphorylation mechanism, which for Bruton's tyrosine kinase (Btk) affects tyrosine 223. (2). Similar to Etk-TNFR2 interaction, Btk interacts with Fas, a member of the TNFR family involved in apoptosis in a ligand-independent manner (3). Btk can be activated through intramolecular autophosphorylation at tyrosine 551 and that Btk autophosphorylation is required for Btk catalytic functions (4).

Specificity: A phospho specific peptide corresponding to residues surrounding tyrosine 223 of human BTK was used as an immunogen. This antibody detects BTK phosphorylated on tyrosine 223.

Storage Condition and Buffer: Store at -20 °C. Buffer: Antibody buffer, sodium azide, glycerol, and BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:

WB: 1:10,000 - 50,000

IP: 1:40

Background References:

1. Tsukada, S., et al (1993) Cell 72, 279-290
2. Rawlings, DJ et al. Immunol. 7, 237-246
3. Vassilev, AZ et al.. 1999. J. Biol. Chem. 274:1646-1656
4. Mahajan S, et al. Mol Cell Biol. 1995;15:5304

*Mouse and Rat reactivity predicted based on sequence alignment only, not based on testing

Product QC'd by:

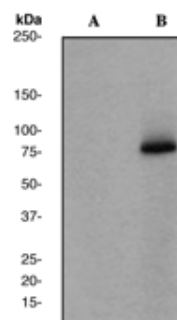


Fig 1. A. Western blot analysis on Ramos cell lysates using anti-Phospho-BTK (pY223) RabMAb (cat. #2207-1). Cells were either (A) untreated (B) treated with pervanadate.

For research use only. Not for use in diagnostic or therapeutic applications.

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit www.epitomics.com
Epitomics, Inc., 863 Mitten Road, Suite 103 Burlingame, California 94010-1303

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