

Anti-Phospho-BTK (Y223) Antibody [ST51-05]

ET1609-55



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IP
Molecular Wt:	Predicted band size: 76 kDa
Clone number:	ST51-05

Description: The Tec family of non-receptor tyrosine kinases is composed of six proteins designated Tec, Emt (also known as Itk or Tsk), Btk (previously known as Atk, BPK or Emb), Bmx, Txk (also known as Rlk) and Dsrc28C. 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. Four alternatively spliced forms of Tec are found to be expressed broadly in cells of hematopoietic lineage and hepatocytes. The Emt gene product associates with CD28 and becomes activated subsequent to CD28 ligation. Btk is necessary for proper B cell development, and mutations in the gene encoding Btk have been associated with families suffering from X-linked agammaglobulinemia, also referred to as Bruton's disease. The Bmx protein shares a high degree of homology with Btk and seems to be expressed at highest levels in the heart. Txk expression is T cell-specific, while expression of the Drosophila Tec homolog, Dsrc28C, is developmentally regulated.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Tyr223 of human BTK.

Positive control: Ramos cell lysate, Ramos treated with 12µg/mL human IgM for 10 minutes cell lysate, K562 cells treated with pervanadate.

Subcellular location: Cytoplasm, Nucleus, Cell membrane.

Database links: SwissProt: Q06187 Human | P35991 Mouse

Recommended Dilutions:

WB	1:1,000-1:2,000
IP	Use at an assay dependent concentration.

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

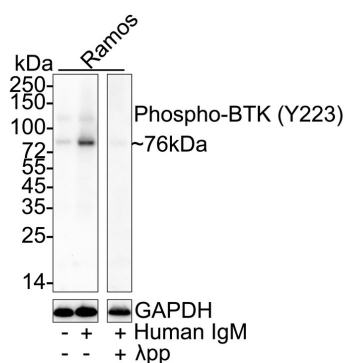


Fig1: Western blot analysis of Phospho-BTK (Y223) on different lysates with Rabbit anti-Phospho-BTK (Y223) antibody (ET1609-55) at 1/1,000 dilution.

Lane 1: Ramos cell lysate

Lane 2: Ramos treated with 12μg/mL human IgM for 10 minutes cell lysate

Lane 3: Ramos treated with 12μg/mL human IgM for 10 minutes cell lysate, then the membrane treated with λpp for 1 hour

Lysates/proteins at 20 μg/Lane.

Predicted band size: 76 kDa

Observed band size: 76 kDa

Exposure time: 59 seconds; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1609-55) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

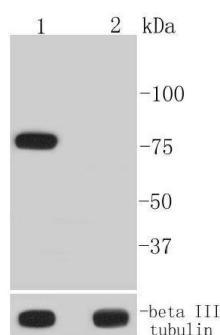


Fig2: Western blot analysis of Phospho-BTK(Y223) on different lysates using anti-Phospho-BTK(Y223) antibody at 1/1,000 dilution.

Positive control:

Lane 1: K562 cells treated with pervanadate

Lane 2: Untreated K562 cell lysate

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- Guo W et al. Targeting Btk/Etk of prostate cancer cells by a novel dual inhibitor. Cell Death Dis 5:e1409 (2014).
- Dong S et al. IPI-145 antagonizes intrinsic and extrinsic survival signals in chronic lymphocytic leukemia cells. Blood 124:3583-6 (2014).

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