SignalChem
Specialists in Signaling Proteins
1-866-9 KINASE (54-6273)

Catalogue #	Aliquot Size
B10-63R-100	100 µg

Anti-BTK

Rabbit Polyclonal Antibody

Catalog # B10-63R
Lot # O2109-34

Cited Applications

WB, ELISA, ICC, IF

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity

Recognizes the BTK protein

Cross Reactivity

Human and Mouse

Host/Isotype/Clone#

Rabbit, IgG

Immunogen

BTK antibody was raised against a synthetic peptide corresponding to 16 amino acids near the amino-terminus of human BTK

Formulation

PBS + 0.02% sodium azide

Stability

1yr at –20°C from date of shipment

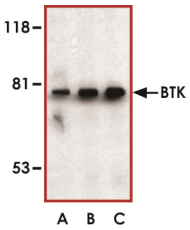
Scientific Background

BTK (also known as Bruton tyrosine kinase) plays a crucial role in B-lymphocyte differentiation and activation. BTK interacts with SRC homology 3 domains of FYN, LYN and HCK that are activated upon stimulation of B- and T-cell receptors (1). Defects in the BTK gene cause Agammaglobulinemia, an X-linked immunodeficiency characterized by failure to produce mature B lymphocyte cells and associated with a failure of Ig heavy chain rearrangement. The unique role of BTK makes it a desirable target for potential anti-cancer, anti-inflammatory and anti-viral agents as well as other treatments (2).

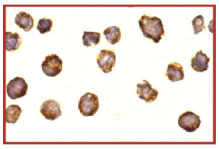
References

1. Cheng, G. et al: Binding of Bruton's tyrosine kinase to Fyn, Lyn, or Hck through a Src homology 3 domain-mediated interaction. Proc. Nat. Acad. Sci. 91: 8152-8155, 1994.
2. Vassilev, A O. et al: Therapeutic potential of inhibiting Bruton's tyrosine kinase, (BTK). Curr Pharm Des. 2004;10(15):1757-66.

Sample Data



Western blot analysis of BTK in U937 cell lysate with BTK antibody at (A) 0.5, (B) 1, and (C) 2 ug/ml.



Immunocytochemistry of BTK in Daudi cells with BTK antibody at 10 ug/ml.

Anti-BTK

Rabbit Polyclonal Antibody

Catalog Number	B10-63R
Specific Lot Number	O2109-34
Purification	Affinity chromatography
Stability	1yr at –20°C from date of shipment
Storage & Shipping	Store product at –20°C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs.

To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
www.signalchem.com

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