Human BTK Antibody

Recombinant Monoclonal Rabbit IgG Clone # 3005A
Catalog Number: MAB11593

DESCRIPTION

Species Reactivity	Human
Specificity	Detects recombinant human BTK-SH2 in Direct ELISA.
Source	Recombinant Monoclonal Rabbit IgG Clone # 3005A
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human BTK Glu280-Val377 Accession # Q06187
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.

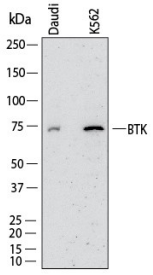
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	Daudi human Burkitt's lymphoma cell line and K562 human chronic myelogenous leukemia cell line

DATA

Western Blot



Detection of Human BTK by Western Blot. Western Blot shows lysates of Daudi human Burkitt's lymphoma cell line and K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 2 µg/ml of Rabbit Anti-Human BTK Monoclonal Antibody (Catalog # MAB11593) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for BTK at approximately 75 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Bruton tyrosine kinase (BTK) is a 75 kDa cytoplasmic protein tyrosine kinase that is widely expressed in hematopoietic cells. BTK is required for B cell receptor signaling and B cell development. Defects in BTK result in X-linked agammaglobulinemia which is characterized by a severely decreased level of circulating antibodies. Like other Tec family kinases, BTK contains a Pleckstrin homology domain, a Tec homology domain, an SH3 domain, an SH2 domain, and a protein kinase domain. Association of the BTK SH2 domain with the B cell linker protein (BLNK) is required for the activation of PLCγ by BTK. Within the SH2 domain (aa 280-377), human BTK shares 99% aa sequence identity with mouse and rat BTK.

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