Human BTK Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 566928

Catalog Number: FAB5807T

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human BTK in Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 566928
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human BTK Glu280-Val377 Accession # Q06187
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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