

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ZAP70 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 521626
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human ZAP70 Trp163-Cys254 Accession # P43403
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.

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

ZAP70 (zeta-chain (TCR) associated protein kinase 70 kDa), expressed primarily in T and NK cells, is a Syk family cytosolic protein tyrosine kinase that consists of two N-terminal SH2 domains and a C-terminal tyrosine kinase domain. Upon T cell receptor activation and phosphorylation of TCR ITAMs by Src family kinases, ZAP70 is recruited to phosphorylated ITAM sequences and subsequently phosphorylated on several tyrosine residues. ZAP70 has been implicated in several immune disorders. An autosomal recessive form of SCID in humans has been attributed to a homozygous mutation in the kinase domain of ZAP70. ZAP70 expression also defines an aggressive subset of chronic lymphocytic leukemia.

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