

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SYK (SH2D2 Domain) in direct ELISAs. In direct ELISAs, 100% cross-reactivity with the SH2D2 domain of recombinant human (rh) ZAP70 is observed and no cross-reactivity with the SH2 domain of rhCSK is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 720402
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SYK (SH2D2 Domain) Trp168-Cys259 Accession # P43405
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
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

SYK (spleen tyrosine kinase) is a 70-80 kDa cytoplasmic non-receptor protein tyrosine kinase of the protein kinase superfamily and the SYK/ZAP-70 subfamily of proteins. The 635 amino acid (aa) human SYK contains two SH2 domains (aa 14-106 and aa 168-259), and one protein kinase domain (aa 371-631). A splicing variant produces a second isoform lacking aa 371-631. Within the second SH2 domain (SH2D2), human SYK shares 94% aa sequence identity with mouse and rat SYK. SYK is widely expressed in hematopoietic cells (notably B lymphocytes), where it couples immunoglobulin receptors to downstream events, such as proliferation, differentiation, and phagocytosis.

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