

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Phospho-SYK when phosphorylated at Y525/Y526 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 616268
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing human SYK Y525/Y526 sites
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

Spleen tyrosine kinase (SYK; also tyrosine-protein kinase SYK) is a 70-80 kDa, ubiquitously expressed member of the protein kinase superfamily, the tyrosine protein kinase family, and the SYK/ZAP-70 subfamily of proteins. Human SYK is 635 amino acids (aa) in length and 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 that has a deletion of aa 371-631 found in the longer isoform. Human SYK shares 92% and 91% aa sequence identity with mouse and rat SYK, respectively. Functionally, SYK is a positive effector of B-cell antigen receptor-stimulated responses.

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