

DESCRIPTION

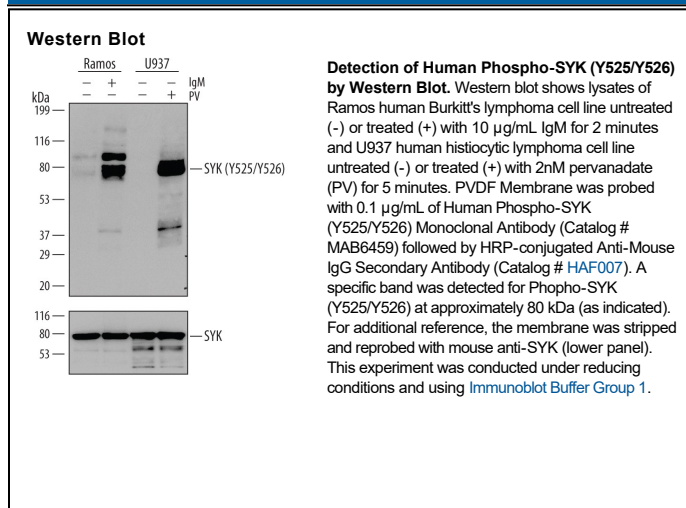
Species Reactivity	Human
Specificity	Detects human Phospho-SYK when phosphorylated at Y525/Y526 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 616268
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing human SYK Y525/Y526 sites
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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	0.1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 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

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.