

DESCRIPTION

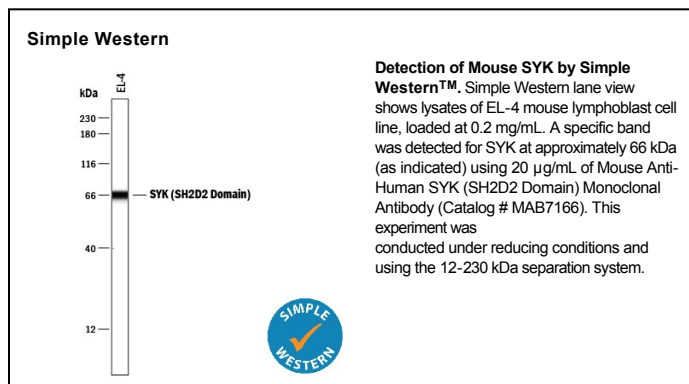
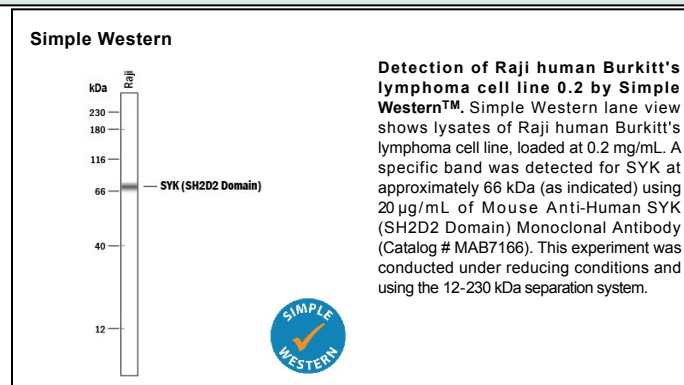
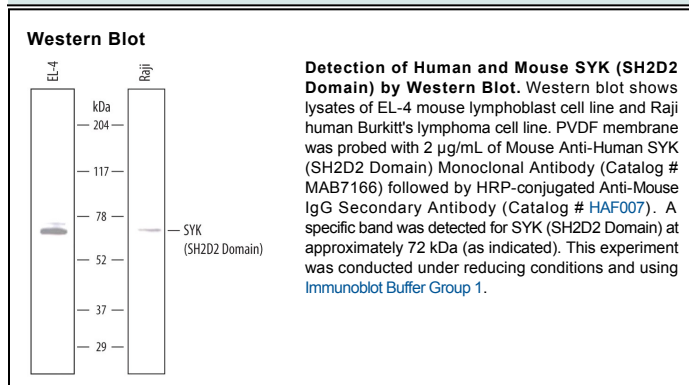
Species Reactivity	Human
Specificity	Detects human SYK (SH2D2 Domain) in direct ELISAs. In direct ELISAs, 100% cross-reactivity with the SH2D2 domain of recombinant human (rh) ZAP70 is observed and no cross-reactivity with the SH2 domain of rhCSK is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 720402
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
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 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	2 µg/mL	See Below
Simple Western	20 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

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.