

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat Fyn in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 361228
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Fyn Met1-Gly83 Accession # P06241
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.

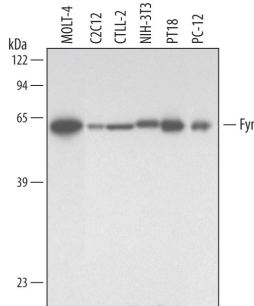
APPLICATIONS

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	0.5 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

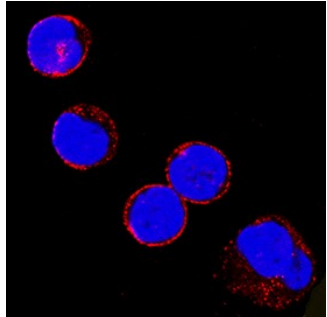
DATA

Western Blot



Detection of Human/Mouse/Rat Fyn by Western Blot. Western blot shows lysates of MOLT-4 human acute lymphoblastic leukemia cell line, C2C12 mouse myoblast cell line, CTLL-2 mouse cytotoxic T cell line, NIH-3T3 mouse embryonic fibroblast cell line, PT18 mouse mast/basophil cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human/Mouse/Rat Fyn Monoclonal Antibody (Catalog # MAB3574) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Fyn at approximately 59 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

Immunocytochemistry



Fyn in Human PBMCs. Fyn was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using Mouse Anti-Human/Mouse/Rat Fyn Monoclonal Antibody (Catalog # MAB3574) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and nuclei. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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

Fyn is a ubiquitously expressed member of the Src family of intracellular tyrosine kinases. Fyn activity is implicated in T cell receptor signaling, adhesion-mediated signaling, and regulation of brain function. Mice lacking *fyn* display various deficits, including impaired spatial memory, hypomyelination, and uncoordinated hippocampal structure, suggesting that Fyn is involved in multiple neural signaling pathways.