Human/Mouse/Rat Lyn Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3206

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Lyn in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Lyn Met1-Ile67 Accession # P07948
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.

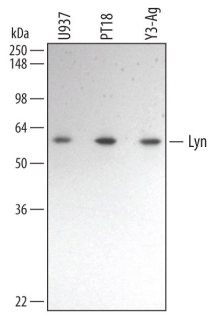
APPLICATIONS

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	0.5 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Simple Western	5 µg/mL	See Below

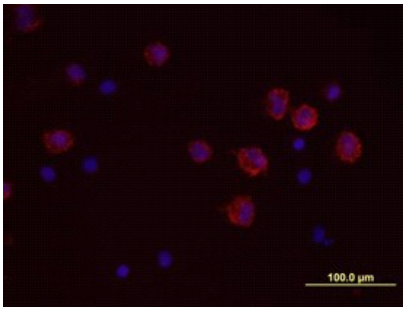
DATA

Western Blot



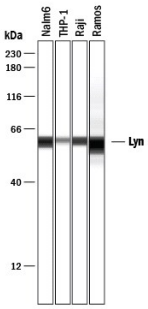
Detection of Human/Mouse/Rat Lyn by Western Blot. Western blot shows lysates of U937 human histiocytic lymphoma cell line, PT18 mouse mast/basophil cell line, and Y3-Ag rat myeloid cell line. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human/Mouse/Rat Lyn Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3206) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for Lyn at approximately 56 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



Lyn in Human PBMCs. Lyn was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) treated with monensin using Goat Anti-Human/Mouse/Rat Lyn Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3206) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

Simple Western



Detection of Human Lyn by Simple Western™. Simple Western lane view shows lysates of Nalm-6 human Pre-B acute lymphocytic leukemia cell line, THP-1 human acute monocytic leukemia cell line, Raji human Burkitt's lymphoma cell line, and Ramos human Burkitt's lymphoma cell line, loaded at 0.2 mg/mL. A specific band was detected for Lyn at approximately 58-60 kDa (as indicated) using 5 µg/mL of Goat Anti-Human/Mouse/Rat Lyn Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3206) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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.** ● 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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

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BACKGROUND

The nonreceptor tyrosine kinase Lyn (lck/yes-related novel tyrosine kinase) is widely expressed, and the predominant Src family member present in B cells. Activation of Lyn occurs upon its association with cell surface receptors such as BCR and CD40. Analyses from both loss- and gain-of-function mutant mice have revealed that Lyn is an essential regulator of B cell activation, maturation, and tolerance.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956