

**DESCRIPTION**

<b>Species Reactivity</b>	Human/Rat
<b>Specificity</b>	Detects human and rat Lyn.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 338716
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Lyn Met1-Ile67 Accession # P07948
<b>Formulation</b>	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.

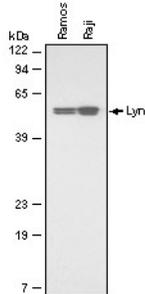
**APPLICATIONS**

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.2 µg/mL	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>Simple Western</b>	5 µg/mL	Ramos human Burkitt's lymphoma cell line

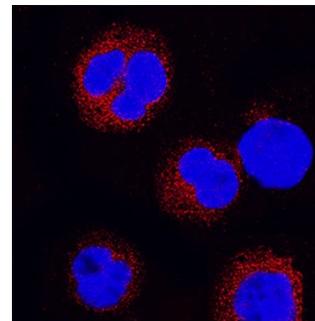
**DATA**

**Western Blot**



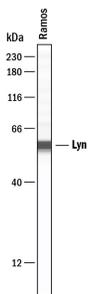
**Detection of Human/Rat Lyn by Western Blot.** Western blot shows lysates of Ramos human Burkitt's lymphoma cell line and Raji human Burkitt's lymphoma cell line. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human/Rat Lyn Monoclonal Antibody (Catalog # MAB3206) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). 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 Raji Human Cell Line.** Lyn was detected in immersion fixed Raji human Burkitt's lymphoma cell line using Mouse Anti-Human/Rat Lyn Monoclonal Antibody (Catalog # MAB3206) at 25 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. 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 Ramos human Burkitt's lymphoma cell line, loaded at 0.2 mg/mL. A specific band was detected for Lyn at approximately 58 kDa (as indicated) using 5 µg/mL of Mouse Anti-Human/Rat Lyn Monoclonal Antibody (Catalog # MAB3206). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.