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Datasheet for ABIN94427 anti-LYN antibody (AA 8-238)

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Overview

Quantity:	0.1 mg
Target:	LYN
Binding Specificity:	AA 8-238
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LYN antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Bacterially expressed recombinant fragment of human Lyn (aa 8 - 238).
Clone:	LYN-01
Isotype:	lgG1
Specificity:	The antibody LYN-01 reacts with Lyn (p56/p53), a non-receptor Src-family tyrosine kinase expressed in hematopoietic tissues (intracellular antigen).
Cross-Reactivity (Details):	Mouse, Human, Rat
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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Target Details

Target:	LYN
Alternative Name:	Lyn (LYN Products)
Background:	LYN proto-oncogene, Src family tyrosine kinase,Lyn is a Src-family protein tyrosine kinase that
	is predominantly expressed in hematopoietic cells. It is associated with a number of cell
	surface receptors including the B cell antigen receptor (BCR) and Fc receptors. Upon their
	triggering, Lyn phosphorylates subunits of these receptors in a cholesterol-dependent manner
	utilizing the plasma membrane lipid raft system. The phosphorylated intracellular domains of
	the receptors are accessible for cytoplasmic Syk tyrosine kinase, which is activated by Lyn-
	mediated phosphorylation and which transduces the signal to downstream adaptors. Lyn is
	abnormally distributed in acute myeloid leukemia cells and seems to be a novel pharmacologi
	target of this disease.,JTK8, p56Lyn, p53Lyn
Gene ID:	4067
UniProt:	P07948
Pathways:	Fc-epsilon Receptor Signaling Pathway, Hormone Transport, Response to Growth Hormone
	Stimulus, Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated
	Immunity, Positive Regulation of Immune Effector Process, CXCR4-mediated Signaling Events
	Thromboxane A2 Receptor Signaling, Integrin Complex, BCR Signaling
Application Details	
Application Notes:	Western blotting: Recommended dilution: 1-2 µg/mL.
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

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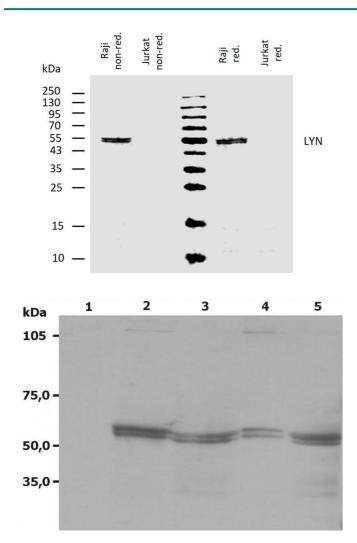
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Queval, Nicolas, Beau: "Role of Src kinases in mobilization of glycosylphosphatidylinositolanchored decay-accelerating factor by Dr fimbria-positive adhering bacteria." in: **Infection and immunity**, Vol. 79, Issue 7, pp. 2519-34, (2011) (PubMed).

Amoui, Dráberová, Tolar, Dráber: "Direct interaction of Syk and Lyn protein tyrosine kinases in rat basophilic leukemia cells activated via type I Fc epsilon receptors." in: **European journal of immunology**, Vol. 27, Issue 1, pp. 321-8, (1997) (PubMed).

Dráberová, Amoui, Dráber: "Thy-1-mediated activation of rat mast cells: the role of Thy-1 membrane microdomains." in: **Immunology**, Vol. 87, Issue 1, pp. 141-8, (1996) (PubMed).

Images



Western Blotting

Image 1. Western blotting analysis of human LYN using mouse monoclonal antibody LYN-01 on lysates of Raji cell line and Jurkat cell line (LYN non-expressing cell line, negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2 μ g/mL of mouse anti-LYN monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. LYN was detected around 55 kDa.

Western Blotting

Image 2. Western Blotting analysis (non-reducing conditions) of Lyn using anti-Lyn (LYN-01). Lane 1: negative control Lane 2: RBL rat basophilic leukemia cell line Lane 3: JURKAT human peripheral blood T cell leukemia cell line Lane 4: A-431 human epidermoid carcinoma cell line Lane 5: U-937 human histiocytic lymphoma cell line

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