

Datasheet for ABIN3032778
anti-LYN antibody (AA 1-210)



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2 Images

Overview

Quantity:	0.4 mL
Target:	LYN
Binding Specificity:	AA 1-210
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LYN antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This LYN antibody was produced from a mouse immunized with a KLH conjugated synthetic peptide between 1-210 amino acids from human protein.
Clone:	1174CT22-3-1-1
Isotype:	IgG1 kappa
Purification:	Purified

Target Details

Target:	LYN
Alternative Name:	LYN (LYN Products)
Background:	Non-receptor tyrosine-protein kinase that transmits signals from cell surface receptors and

plays an important role in the regulation of innate and adaptive immune responses, hematopoiesis, responses to growth factors and cytokines, integrin signaling, but also responses to DNA damage and genotoxic agents. Functions primarily as negative regulator, but can also function as activator, depending on the context. Required for the initiation of the B-cell response, but also for its down- regulation and termination. Plays an important role in the regulation of B-cell differentiation, proliferation, survival and apoptosis, and is important for immune self-tolerance. Acts downstream of several immune receptors, including the B-cell receptor, CD79A, CD79B, CD5, CD19, CD22, FCER1, FCGR2, FCGR1A, TLR2 and TLR4. Plays a role in the inflammatory response to bacterial lipopolysaccharide. Mediates the responses to cytokines and growth factors in hematopoietic progenitors, platelets, erythrocytes, and in mature myeloid cells, such as dendritic cells, neutrophils and eosinophils. Acts downstream of EPOR, KIT, MPL, the chemokine receptor CXCR4, as well as the receptors for IL3, IL5 and CSF2. Plays an important role in integrin signaling. Regulates cell proliferation, survival, differentiation, migration, adhesion, degranulation, and cytokine release. Down- regulates signaling pathways by phosphorylation of immunoreceptor tyrosine-based inhibitory motifs (ITIM), that then serve as binding sites for phosphatases, such as PTPN6/SHP-1, PTPN11/SHP-2 and INPP5D/SHIP-1, that modulate signaling by dephosphorylation of kinases and their substrates. Phosphorylates LIME1 in response to CD22 activation. Phosphorylates BTK, CBL, CD5, CD19, CD72, CD79A, CD79B, CSF2RB, DOK1, HCLS1, LILRB3/PIR-B, MS4A2/FCER1B, PTK2B/PYK2, SYK and TEC. Promotes phosphorylation of SIRPA, PTPN6/SHP-1, PTPN11/SHP-2 and INPP5D/SHIP-1. Mediates phosphorylation of the BCR-ABL fusion protein. Required for rapid phosphorylation of FER in response to FCER1 activation. Mediates KIT phosphorylation. Acts as an effector of EPOR (erythropoietin receptor) in controlling KIT expression and may play a role in erythroid differentiation during the switch between proliferation and maturation. Depending on the context, activates or inhibits several signaling cascades. Regulates phosphatidylinositol 3-kinase activity and AKT1 activation. Regulates activation of the MAP kinase signaling cascade, including activation of MAP2K1/MEK1, MAPK1/ERK2, MAPK3/ERK1, MAPK8/JNK1 and MAPK9/JNK2. Mediates activation of STAT5A and/or STAT5B. Phosphorylates LPXN on 'Tyr-72'.

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](#)

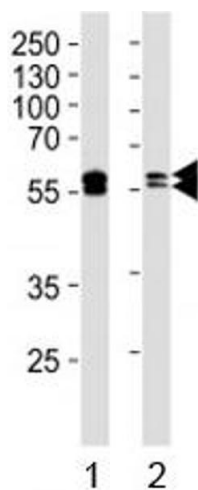
Application Details

Application Notes:	Titration of the LYN antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000
Restrictions:	For Research Use only

Handling

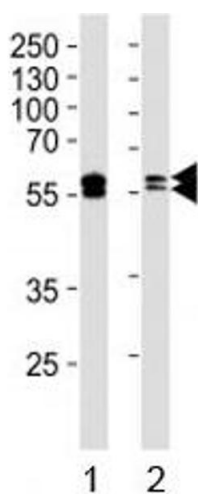
Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the LYN antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of lysate from 1) A431 and 2) Raji cell line using LYN antibody. Predicted molecular weight: 56/58 kDa (isoforms 1/2).



Western Blotting

Image 2. Western blot analysis of lysate from 1) A431 and 2) Raji cell line using LYN antibody. Predicted molecular weight: 56/58 kDa (isoforms 1/2).