Datasheet for ABIN967688

anti-LYN antibody (AA 1-138)

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Overview

Quantity:	50 µg
Target:	LYN
Binding Specificity:	AA 1-138
Reactivity:	Human, Mouse, Rat, Chicken, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LYN antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Human Lyn aa. 1-138
Clone:	42-Lyn
Isotype:	IgG1
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine)
No Cross-Reactivity:	Chicken
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive

Product Details

	deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	LYN
Alternative Name:	Lyn (LYN Products)
Background:	Lyn is a 56 kDa cytosolic tyrosine kinase that belongs to the Src family of kinases. In addition to Src, this family includes lck, Fgr, Hck, Blk, Yes, fyn, and Yrk kinases. The lyn gene was isolated from a human placenta cDNA library and later found in a variety of cell types. Similar to other members of the Src family of tyrosine kinases, Lyn has been implicated in the regulation of cell signaling mechanisms. Lyn's function has primarily been studied in hematopoietic cells where it is associated with the high-affinity IgE receptor in basophils. It also associates with p120 Ras-GAP in thrombin-stimulated platelets. This association corresponds to an increase in Lyn kinase activity. Lyn is often observed as a doublet of about 56 kDa and 53 kDa. These forms may represent alternative splicing products of lyn mRNA.
Molecular Weight:	56 kDa
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

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

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:	Store undiluted at -20° C.

Publications

Product cited in:

Liang, Wisniewski, Strife, Shivakrupa, Clarkson, Resh: "Phosphatidylinositol 3-kinase and Src family kinases are required for phosphorylation and membrane recruitment of Dok-1 in c-Kit signaling." in: **The Journal of biological chemistry**, Vol. 277, Issue 16, pp. 13732-8, (2002) (PubMed).

Deehan, Harnett, Harnett: "A filarial nematode-secreted phosphorylcholine-containing glycoprotein uncouples the B cell antigen receptor from extracellular signal-regulated kinase-mitogen-activated protein kinase by promoting the surface Ig-mediated recruitment of Src homology 2 dom" in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 166, Issue 12, pp. 7462-8, (2001) (PubMed).

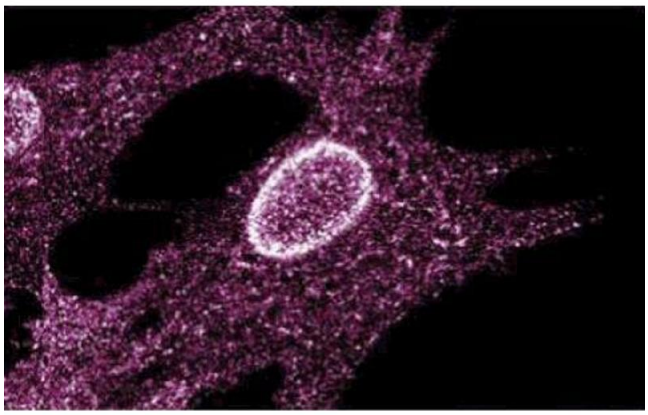
Müller, Jung, Wied, Welte, Jordan, Frick: "Redistribution of glycolipid raft domain components induces insulin-mimetic signaling in rat adipocytes." in: **Molecular and cellular biology**, Vol. 21, Issue 14, pp. 4553-67, (2001) (PubMed).

Liu, Oh, Horner, Rogers, Schnitzer: "Organized endothelial cell surface signal transduction in caveolae distinct from glycosylphosphatidylinositol-anchored protein microdomains." in: **The Journal of biological chemistry**, Vol. 272, Issue 11, pp. 7211-22, (1997) (PubMed).

Bolen, Rowley, Spana, Tsygankov: "The Src family of tyrosine protein kinases in hemopoietic signal transduction." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 6, Issue 15, pp. 3403-9, (1993) (PubMed).

Western Blotting

Image 1. Western blot analysis of Lyn on HEL (human erythroleukemia cell line) lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-Lyn.



Immunofluorescence

Image 2. Immunofluorescent staining on Human Fibroblasts