abcam

Product datasheet

Anti-Lyn (phospho Y507) antibody [LynY507-5B6] ab278639

Recombinant

6 Images

Overview

Product name	Anti-Lyn (phospho Y507) antibody [LynY507-5B6]
Description	Rabbit monoclonal [LynY507-5B6] to Lyn (phospho Y507)
Host species	Rabbit
Tested applications	**Suitable for:** WB, Flow Cyt
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide within Human Lyn (phospho Y507). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **P07948** Run BLAST with Run BLAST with
Positive control	WB: HeLa (treated with hydrogen peroxide) cell extract. Flow cyt: C2C12 cells (treated with pervanadate); Jurkat cells (treated with IFNa + IL-4 + pervanadate).
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituents: 49.88% PBS, 50% Glycerol (glycerin, glycerine), 0.1% BSA
Purity	Protein A/G purified
Clonality	Monoclonal

Clone number	LynY507-5B6
Isotype	IgG
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab278639 in the following tested applications.

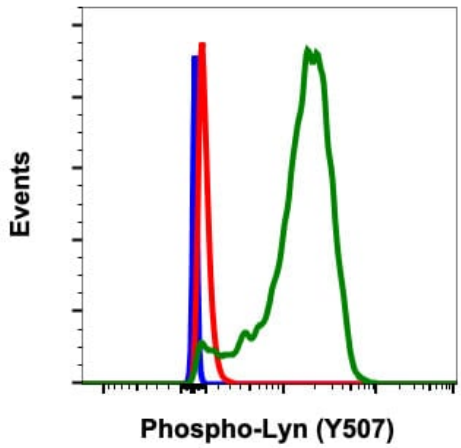
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.01 µg/ml. Predicted molecular weight: 59 kDa.
Flow Cyt		Use a concentration of 0.001 - 1 µg/ml.

Target

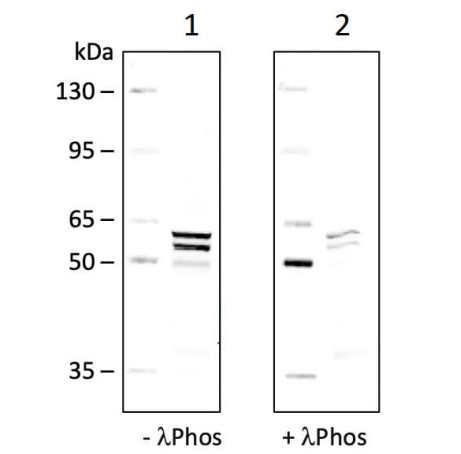
Function	Down regulates expression of stem cell growth factor receptor (KIT). Acts as an effector of EpoR (erythropoietin receptor) in controlling KIT expression and may play a central role in erythroid differentiation during the switch between proliferation and maturation (By similarity). Acts as a positive regulator of cell movement while negatively regulating adhesion to stromal cells by inhibiting the ICAM-1-binding activity of beta-2 integrins. Acts as the mediator that relays suppressing signals from the chemokine receptor CXCR4 to beta-2 integrin LFA-1 in hematopoietic precursors. Involved in induction of stress-activated protein kinase (SAPK), but not ERK or p38 MAPK, in response to genotoxic agents. Induces SAPK by a MKK7- and MEKK1-dependent mechanism. The LYN -> MEKK1 -> MKK7 -> SAPK pathway is functional in the induction of apoptosis by genotoxic agents.
Tissue specificity	Widely expressed in a variety of organs, tissues, and cell types such as epidermoid, hematopoietic, and neuronal cells. Expressed in primary neuroblastoma tumors.
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily. Contains 1 protein kinase domain. Contains 1 SH2 domain. Contains 1 SH3 domain.
Domain	The protein kinase domain plays an important role in its localization in the cell membrane.
Post-translational modifications	Ubiquitinated. Ubiquitination is SH3-dependent.
Cellular localization	Cell membrane. Nucleus. Cytoplasm. Cytoplasm > perinuclear region. Golgi apparatus. Accumulates in the nucleus by inhibition of CRM1-mediated nuclear export. Nuclear accumulation is increased by inhibition of its kinase activity. The trafficking from the Golgi apparatus to the plasma membrane occurs in a kinase domain-dependent but kinase activity independent manner and is mediated by exocytic vesicular transport.
Form	This protein is known to be similar in amino acid sequence to HCK (P08631), LCK (P06239), FYN (P06241), YES1 (P07947), and SRC (P12931). Therefore, cross-reactivity with these homologous proteins may be observed. We would be happy to provide immunogen alignment information upon request.

Images



Flow Cytometry - Anti-Lyn (phospho Y507) antibody [LynY507-5B6] (ab278639)

Flow cytometric analysis of Jurkat cells secondary antibody only negative control (blue) or untreated (red) or treated with IFNa + IL-4 + pervanadate (green) using ab278639 at 0.01µg/mL.

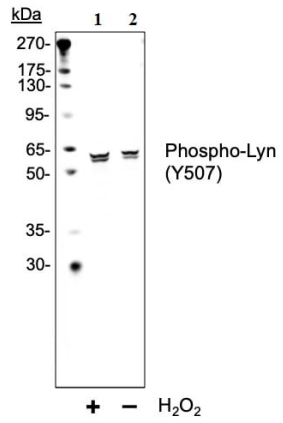


Western blot - Anti-Lyn (phospho Y507) antibody [LynY507-5B6] (ab278639)

All lanes : Anti-Lyn (phospho Y507) antibody [LynY507-5B6] (ab278639)

Lane 1 : HeLa cells treated with H2O2. Cell lysates were ran on a SDS-PAGE gel, transferred to nitrocellulose membrane, blocked, non-treated (-) and stained.
Lane 2 : HeLa cells treated with H2O2. Cell lysates were ran on a SDS-PAGE gel, transferred to nitrocellulose membrane, blocked and treated with lambda phosphatase (+) and stained.

Predicted band size: 59 kDa



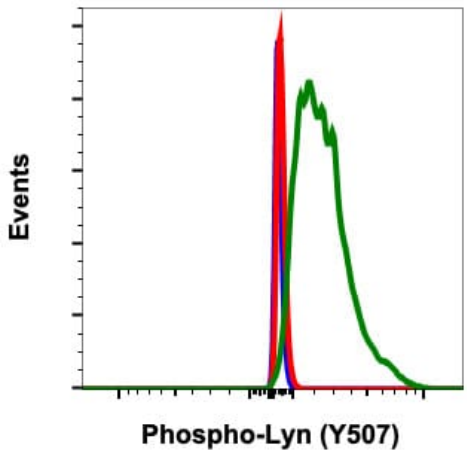
Western blot - Anti-Lyn (phospho Y507) antibody [LynY507-5B6] (ab278639)

All lanes : Anti-Lyn (phospho Y507) antibody [LynY507-5B6] (ab278639) at 0.01 µg/ml

Lane 1 : HeLa cell extract, treated with H2O2

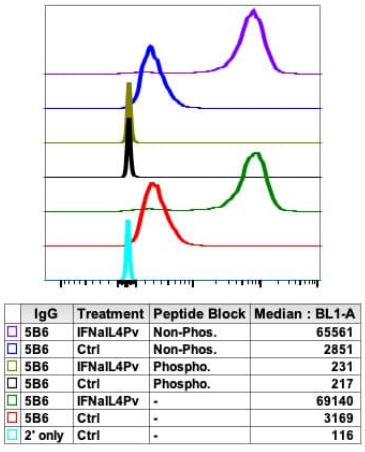
Lane 2 : HeLa cell extract, untreated

Predicted band size: 59 kDa



Flow Cytometry - Anti-Lyn (phospho Y507) antibody [LynY507-5B6] (ab278639)

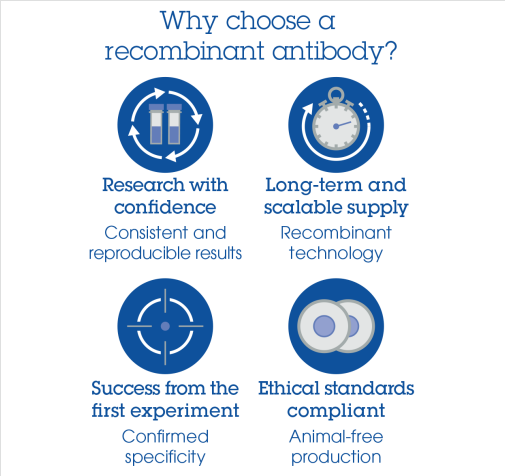
Flow cytometric analysis of C2C12 cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using ab278639 at 0.01µg/mL.



IgG	Treatment	Peptide Block	Median : BL1-A
5B6	IFNalL4Pv	Non-Phos.	65561
5B6	Ctrl	Non-Phos.	2851
5B6	IFNalL4Pv	Phospho.	231
5B6	Ctrl	Phospho.	217
5B6	IFNalL4Pv	-	69140
5B6	Ctrl	-	3169
2' only	Ctrl	-	116

Flow Cytometry - Anti-Lyn (phospho Y507) antibody [LynY507-5B6] (ab278639)

Peptide blocking flow cytometric analysis of Jurkat cells secondary antibody only negative control (light blue) or untreated (red) or treated with IFNa + IL-4 + pervanadate (green) or untreated and blocked with phospho-peptide (black) or treated and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or treated and blocked with non-phospho peptide (purple) using ab278639 at 0.01µg/mL.



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