abcam

Product datasheet

Anti-Lyn (phospho Y507) antibody [EP504Y] ab33914

Recombinant RabMAb

11 References 4 Images

Overview

Product name	Anti-Lyn (phospho Y507) antibody [EP504Y]
Description	Rabbit monoclonal [EP504Y] to Lyn (phospho Y507)
Host species	Rabbit
Tested applications	**Suitable for:** Dot blot, WB, IP **Unsuitable for:** Flow Cyt or ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human Lyn (phospho Y507). The exact sequence is proprietary. Database link: **P07948**
Positive control	WB: HeLa (untreated and treated with pervanadate) and Raji treated with pervanadate whole cell lysates. IP: SH-SY5Y treated with pervandate whole cell lysate.
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EP504Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab33914 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
Dot blot		1/1000.
WB		1/500 - 1/5000. Detects a band of approximately 53-56 kDa (predicted molecular weight: 61 kDa).
IP		1/80.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

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.

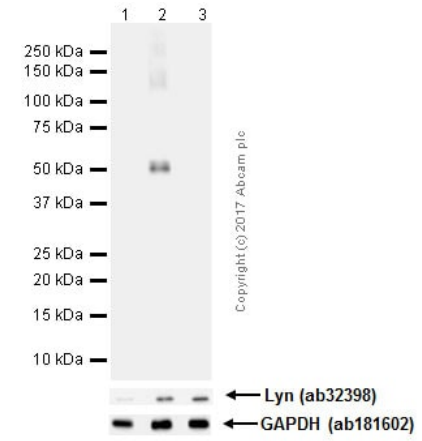
Post-translational modifications Ubiquitinated. Ubiquitination is SH3-dependent.

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



Western blot - Anti-Lyn (phospho Y507) antibody [EP504Y] (ab33914)

All lanes : Anti-Lyn (phospho Y507) antibody [EP504Y] (ab33914) at 1/1000 dilution

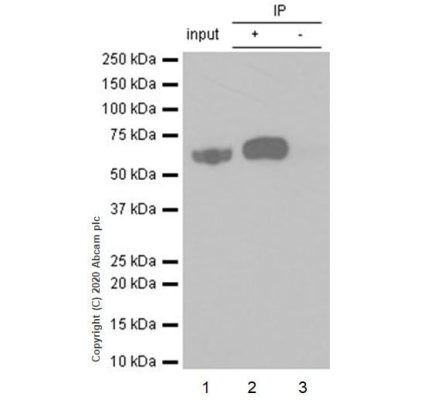
Lane 1 : Raji whole cell lysate
Lane 2 : Raji treated with 1mM pervanadate for 30 min whole cell lysate
Lane 3 : Raji treated with 1mM pervanadate for 30 min whole cell lysate, the membrane was incubated with alkaline phosphatase.

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

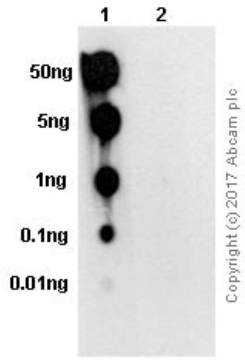
Predicted band size: 61 kDa
Observed band size: 61 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



Immunoprecipitation - Anti-Lyn (phospho Y507) antibody [EP504Y] (ab33914)

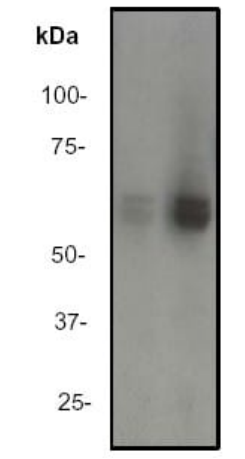
Purified ab33914 at 1/80 dilution (2µg) immunoprecipitating Lyn in SH-SY5Y treated with pervandate whole cell lysate.
Lane 1 (input): SH-SY5Y (Human neuroblastoma epithelial cell) treated with pervandate whole cell lysate 10µg
Lane 2 (+): ab33914 + SH-SY5Y treated with pervandate whole cell lysate.
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab256224** in SH-SY5Y treated with pervandate whole cell lysate.
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.
Blocking Buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.
Observed band size: 61 kDa



Dot Blot - Anti-Lyn (phospho Y507) antibody [EP504Y] (ab33914)

Dot blot analysis of Lyn (phospho Y507) phospho peptide (Lane 1) and Lyn non-phospho peptide (Lane 2) labelling Lyn (phospho Y507) with ab33914 at a dilution of 1/1000. A Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) was used as the secondary antibody at a dilution of 1/100,000.

Blocking and dilution buffer: 5% NFDM /TBST.



Western blot - Anti-Lyn (phospho Y507) antibody [EP504Y] (ab33914)

All lanes : Anti-Lyn (phospho Y507) antibody [EP504Y] (ab33914) at 1/5000 dilution

Lane 1 : 10ug Non treated HeLa cell lysate
Lane 2 : 10ug HeLa cell lysate treated with Pervanadate

Secondary
All lanes : Goat anti-rabbit HRP labeled.

Predicted band size: 61 kDa

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