


Product datasheet

Anti-Lyn (phospho Y507) antibody [EP504Y] - BSA and Azide free ab256224

Recombinant RabMAb

2 Images

Overview

Product name	Anti-Lyn (phospho Y507) antibody [EP504Y] - BSA and Azide free
Description	Rabbit monoclonal [EP504Y] to Lyn (phospho Y507) - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IP, Dot blot Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa (untreated and treated with pervanadate) and Raji treated with pervanadate whole cell lysates. IP: SH-SY5Y treated with pervanadate whole cell lysate.
General notes	<p>ab256224 is the carrier-free version of ab33914.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>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.</p>

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. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP504Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab256224 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 at an assay dependent concentration. Detects a band of approximately 53-56 kDa (predicted molecular weight: 61 kDa).
IP		Use at an assay dependent concentration.
Dot blot		Use at an assay dependent concentration.

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.

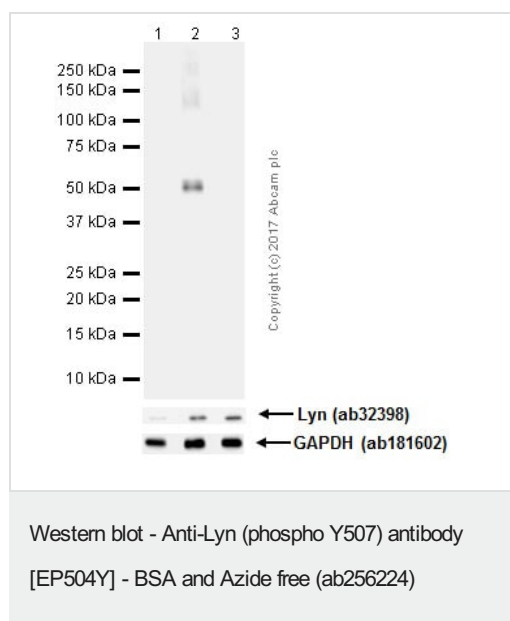
Cellular localization

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



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

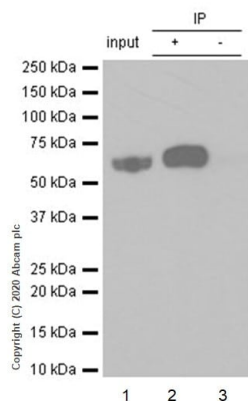
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 61 kDa

Observed band size: 61 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab33914](#)).



Immunoprecipitation - Anti-Lyn (phospho Y507)
antibody [EP504Y] - BSA and Azide free (ab256224)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab33914**).

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