

Product datasheet

Anti-Lyn antibody ab227170

3 Images

Overview

Product name	Anti-Lyn antibody
Description	Rabbit polyclonal to Lyn
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IP, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Sheep, Cow 
Immunogen	Recombinant fragment within Human Lyn (internal sequence). The exact sequence is proprietary. Database link: P07948
Positive control	WB: THP-1 whole cell lysate. IP: K562 whole cell extract. ICC/IF: A431 cells.

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	pH: 7.0 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1% BSA, 20% Glycerol, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab227170** in the following tested applications.

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

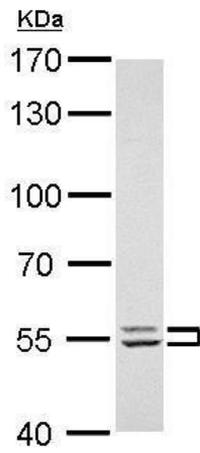
Application	Abreviews	Notes
ICC/IF		1/100 - 1/1000.

Application	Abreviews	Notes
IP		1/100 - 1/500.
WB		1/500 - 1/3000. Predicted molecular weight: 59 kDa.

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

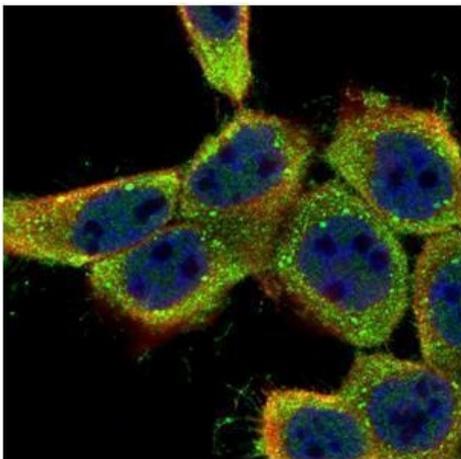


Western blot - Anti-Lyn antibody (ab227170)

Anti-Lyn antibody (ab227170) at 1/1000 dilution + THP-1 (human monocytic leukemia cell line) whole cell lysate at 30 μ g

Predicted band size: 59 kDa

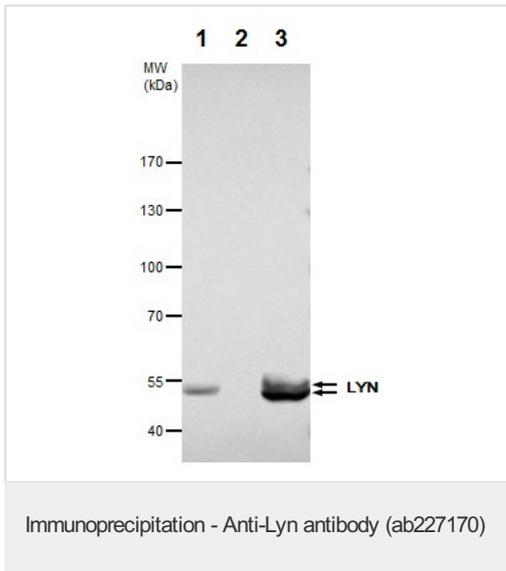
7.5 % SDS-PAGE gel.



Immunocytochemistry/ Immunofluorescence - Anti-Lyn antibody (ab227170)

PFA-fixed A431 (human epidermoid carcinoma cell line) cells stained for Lyn (green) using ab227170 at 1/500 dilution in ICC/IF.

Counterstain: Alpha-tubulin filaments were labeled with an alpha Tubulin antibody (red) at 1/2000 dilution.



Lyn was immunoprecipitated from K562 (human chronic myelogenous leukemia cell line from bone marrow) whole cell extract with 4 µg of ab227170. Western blot was performed from the immunoprecipitate using ab227170 at 1/500 dilution. An Anti-Rabbit IgG was used as secondary antibody.

Lane 1: K562 whole cell lysate 40 µg (Input).

Lane 2: Rabbit IgG instead of ab227170 in K562 whole cell lysate.

Lane 3: ab227170 IP in K562 whole cell lysate.

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