abcam

Product datasheet

Recombinant human Lyn protein ab70789

4 Images

Description

Product name	Recombinant human Lyn protein
Biological activity	The Specific activity of ab70789 was determined to be 571 nmol/min/mg.
Purity	> 90 % SDS-PAGE. Purity: was determined to be >90% by densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH DFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPRGSMGCI SKGKDSLSD DGVDLKTQPV RNTERTIYVR PTSNKQQRP VPESQLLPGQ RFQTKDPEEQ GDIVVALYPY DGIHPDDLSF KKGEKMKVLE EHGEWWKAKS LTKKEGFIP SNYVAKLNTL ETEEWFFKDI TRKDAERQLL PGNSAGAFL IRESETLKGS FSLSVRDFDP VHGDVIKHYK IRSLDNGGYY ISPRITFPCI SDMIKHYQKQ ADGLCRRLEK ACISPKPQKP WDKDAWEIPR ESIKLVKRLG AGQFGEVWMG YYNNSTKVAV KTLKPGTMSV QAFLEEANLM TLQHDKLVR LYAVVTREEP IYIITEYMAK GSLLDFLKSD EGGKVLLPKL IDFSAQIAEG MAYIERKNYI HRDLRAANVL VSESLMCKIA DFGLARVIED NEYTAREGAK FPIKWTAPEA INFGCFTIKS DVWSFGILLY EIVTYGKIPY PGRTNADVMT LSQGYRMPR VENCPDELYD IMKMCWKEKA ERPTFDYLQ SVLDDFYTAT EGQYQQQP
Predicted molecular weight	85 kDa
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab70789** in the following tested applications.

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

Applications	SDS-PAGE Functional Studies
Form	Liquid
Additional notes	**ab204877** (Poly (4:1 Glu, Tyr) peptide) can be utilized as a substrate for assessing kinase activity

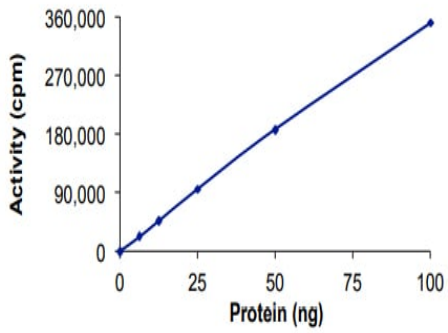
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

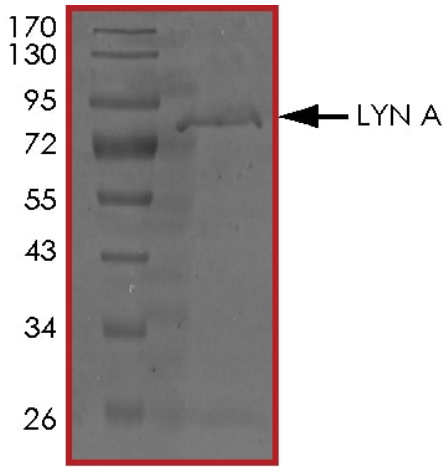
Function	Down regulates expression of stem cell growth factor receptor (KIT). Acts as an effector of EpoR (erythropoietin receptor) in controlling KIT expression and may play a central role in erythroid differentiation during the switch between proliferation and maturation (By similarity). Acts as a 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.

Images



Functional Studies - Recombinant human Lyn protein (ab70789)

The specific activity of Lyn (ab70789) was determined to be 485 nmol/min/mg as per activity assay protocol

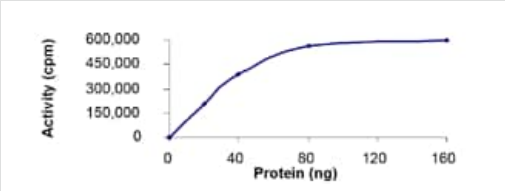


SDS-PAGE - Recombinant human Lyn protein (ab70789)

SDS PAGE analysis of ab70789

SDS-PAGE - Recombinant human Lyn protein (ab70789)

SDS-PAGE showing ab70789 at approximately 85 kDa.



Functional Studies - Recombinant human Lyn protein (ab70789)

Kinase Assay demonstrating specific activity of ab70789.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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