

Recombinant human Fyn protein ab135007

2 Images

Description

Product name	Recombinant human Fyn protein
Biological activity	Specific activity: 200 pmole/min/μg. Assay Conditions: Enzyme reaction is conducted in a Kinase Buffer (50 mM Tris pH 7.4, 20 mM MgCl ₂ , 0.1 mg/ml BSA and 1 mM DTT) containing 20 μM ATP and 0.2 mg/ml poly-(Glu-Tyr) for 30 min at 30 °C. Enzyme activity is measured using Kinase-Glo plus reagents.
Purity	>= 51 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>P06241</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human

Sequence

GCVQCKDKEATKLTEERDGLNQSSGYRYGTDPTPQHYP
SFGVTSIPNYN
NFHAAGGQQLTVFGGVNSSHTGTLRTRGGTGVTLFVALY
DYEARTEDDL
SFHKGEKFQILNSSEGDWWEARSLTTGETGYIPSNYVAPV
DSIQAEWYF
GKLGRKDAERQLLSFGNPRGTFLIRESETTKGAYSLSIRD
WDDMKGDHVK
HYKIRKLDNGGYITTRAQFETLQQLVQHYSERAAGLCCRL
VVPCHKGMP
RLDLSVKTKDVWEIPRESLQLIKRLGNGQFGEVWMGTW
NGNTKVAIKTL
KPGTMSPEFLEEAQIMKKLKHDKLVQLYAVVSEEPMYT
EYMNKGSL
DFLKDGEGRALKLPNLVDMAAQVAAGMAYIERMNYHRDL
RSANILVGNG
LICKIADFGLARLIEDNEYTARQGAKFPIKWTAPEAALYGRF
TIKSDVWS
FGILLTELVTKGRVPYPGMNNREVLEQVERGYRMPCPD
CPISLHELMIH
CWKKDPEERPTFEYLQSFLEDYFTATEPQYQPGENL

Predicted molecular weight	61 kDa including tags
Amino acids	2 to 537
Tags	DDDDK tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab135007** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE
Form	Liquid

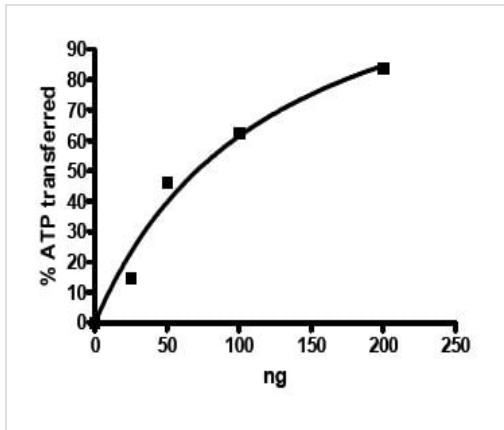
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.56% Glutathione, 0.019% Potassium chloride, 0.72% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.73% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

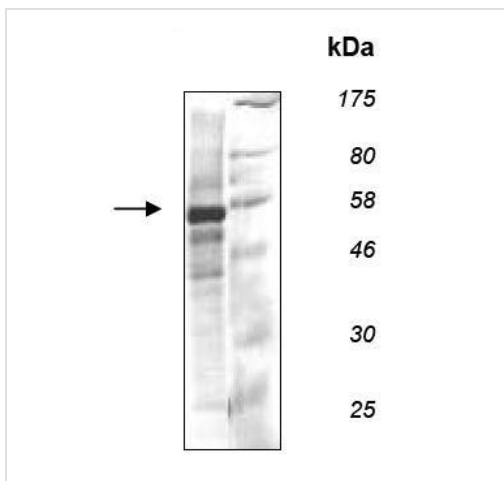
Function	Tyrosine-protein kinase implicated in the control of cell growth. Plays a role in the regulation of intracellular calcium levels, with isoform 2 showing the greater ability to mobilize cytoplasmic calcium in comparison to isoform 1. Required in brain development and mature brain function with important roles in the regulation of axon growth, axon guidance, and neurite extension. Blocks axon outgrowth and attraction induced by NTN1 by phosphorylating its receptor DDC. Phosphorylates RUNX3.
Tissue specificity	Isoform 1 is highly expressed in the brain. Isoform 2 is expressed in cells of hemopoietic lineages, especially T lymphocytes.
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.
Cellular localization	Cell membrane. Present and active in lipid rafts. Present in cell body and along the process of mature and developing oligodendrocytes.

Images



The specific activity of ab135007 is 200 pmole/min/ug.

Functional Studies - Recombinant human Fyn protein (ab135007)



10% SDS-PAGE analysis of ab135007 at 4 µg stained with Coomassie Blue.

SDS-PAGE - Recombinant human Fyn protein (ab135007)

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

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