Product Name: Fyn (phospho Tyr530) Rabbit Polyclonal Antibody
Catalog #: APRab04712

Summary

Production Name	Fyn (phospho Tyr530) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	FYN
Alternative Names	FYN; Tyrosine-protein kinase Fyn; Proto-oncogene Syn; Proto-oncogene c-Fyn; Src-like kinase; SLK; p59-Fyn
Gene ID	2534.0
SwissProt ID	P06241.The antiserum was produced against synthesized peptide derived from human Fyn around the phosphorylation site of Tyr530. AA range:488-537

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000..
Molecular Weight	60kD

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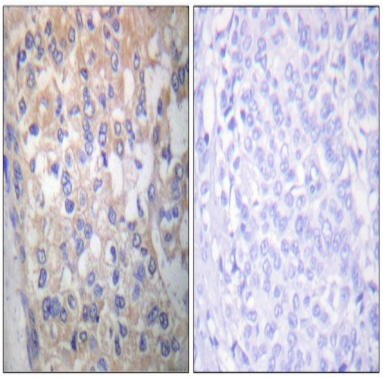
Background

This gene is a member of the protein-tyrosine kinase oncogene family. It encodes a membrane-associated tyrosine kinase that has been implicated in the control of cell growth. The protein associates with the p85 subunit of phosphatidylinositol 3-kinase and interacts with the fyn-binding protein. Alternatively spliced transcript variants encoding distinct isoforms exist. [provided by RefSeq, Jul 2008],catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,cofactor:Manganese.,enzyme regulation:Inhibited by phosphorylation of Tyr-531 by leukocyte common antigen and activated by dephosphorylation of this site.,function: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.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SH2 domain.,similarity:Contains 1 SH3 domain.,subcellular location:Present and active in lipid rafts. Present in cell body and along the process of mature and developing oligodendroyctes.,subunit:Associates through its SH3 domain, to the p85 subunit of phosphatidylinositol 3-kinase. Interacts with the FYN-binding protein (FYB). Interacts with phosphorylated TOM1L1. Interacts with CD79A upon activation of the B-cell antigen receptor which increases FYN activity (By similarity). Interacts with PAG1. Interacts (via SH3 domain) with PRMT8. Interacts with SH2D1A and SLAMF1. Interacts (via SH3 domain) with HEV ORF3 protein.,tissue specificity:Isoform 1 is highly expressed in the brain, isoform 2 is expressed in cells of hemopoietic lineages, especially T lymphocytes.,

Research Area

Axon guidance;Focal adhesion;Adherens_Junction;Natural killer cell mediated cytotoxicity;T_Cell_Receptor;Fc epsilon RI;Prion diseases;Pathogenic Escherichia coli infection;Viral myocarditis;

Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Fyn (Phospho-Tyr530) Antibody.

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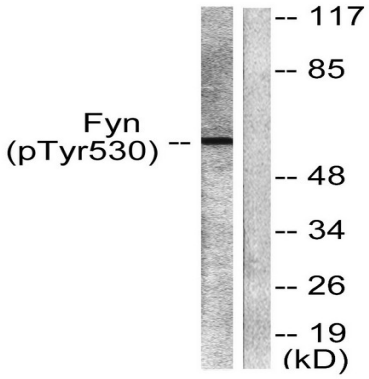
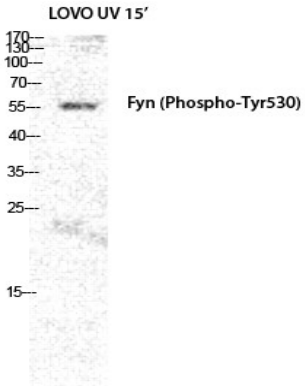
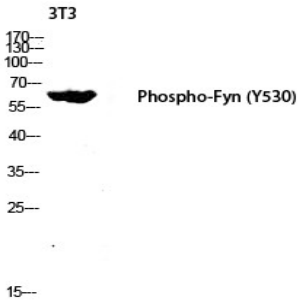
The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with H2O2 100uM 15 ', using Fyn (Phospho-Tyr530) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of LOVO+UV cells using Phospho-Fyn (Y530) Polyclonal Antibody diluted at 1: 2000



Western blot analysis of 3T3 lysis using Phospho-Fyn (Y530) antibody. Antibody was diluted at 1:2000

Note

For research use only.