

Fyn Monoclonal Antibody

Catalog No: YM0290

Reactivity: Human; Mouse

Applications: WB;ELISA

Target: Fyn

Fields: >>Sphingolipid signaling pathway;>>Phospholipase D signaling

pathway;>>Axon guidance;>>Osteoclast differentiation;>>Focal

adhesion;>>Adherens junction;>>Platelet activation;>>Natural killer cell mediated

cytotoxicity;>>T cell receptor signaling pathway;>>Fc epsilon RI signaling pathway;>>Cholinergic synapse;>>Prion disease;>>Pathogenic Escherichia coli

infection;>>Viral myocarditis

Gene Name: FYN

Protein Name: Tyrosine-protein kinase Fyn

P06241

P39688

Human Gene Id: 2534

Human Swiss Prot

No:

Mouse Gene ld: 14360

Mouse Swiss Prot

No:

Immunogen : Purified recombinant fragment of human Fyn expressed in E. Coli.

Specificity: Fyn Monoclonal Antibody detects endogenous levels of Fyn protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Monoclonal, Mouse

Dilution: WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.

Purification : Affinity purification

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Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 61kD

Cell Pathway: 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;

P References: 1. Mol Cell Biol. 2009 Dec;29(24):6438-48.

2. Cancer Res. 2009 Sep 1;69(17):6889-98.

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],

Function: 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

Subcellular Location:

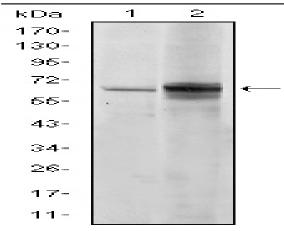
Cytoplasm. Nucleus. Cell membrane. Present and active in lipid rafts.

Palmitoylation is crucial for proper trafficking.

Expression: Isoform 1 is highly expressed in the brain. Isoform 2 is expressed in cells of

hemopoietic lineages, especially T-lymphocytes.

Products Images



Western Blot analysis using Fyn Monoclonal Antibody against NIH/3T3 (1) and HeLa (2) cell lysate.

