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## Fyn Monoclonal Antibody

| Catalog No: | YM0289 |
| :---: | :---: |
| Reactivity : | Human |
| Applications: | WB;IHC;IF;FCM;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

Human Gene Id: 2534

| Human Swiss Prot | P06241 |
| :---: | :---: |
| No: |  |
| Mouse Swiss Prot | P39688 |
| No: |  |
| Immunogen: | Purified recombinant fragment of human Fyn expressed in E. Coli. |
| Specificity : | Fyn Monoclonal Antibody detects endogenous levels of Fyn protein. |

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

Source : Monoclonal, Mouse

Dilution: WB 1:500-1:2000. IHC 1:200-1:1000. IF 1:200-1:1000. Flow cytometry: 1:200-1:400. ELISA: 1:10000. Not yet tested in other applications.

## Purification: Affinity purification

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Storage Stability: $\quad-15^{\circ} \mathrm{C}$ to $-25^{\circ} \mathrm{C} / 1$ year(Do not lower than $-25^{\circ} \mathrm{C}$ )

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 :

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 |

Cytoplasm. Nucleus. Cell membrane. Present and active in lipid rafts. Palmitoylation is crucial for proper trafficking.

Isoform 1 is highly expressed in the brain. Isoform 2 is expressed in cells of hemopoietic lineages, especially T-lymphocytes.

## Products Images

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Western Blot analysis using Fyn Monoclonal Antibody against HeLa cell lysate.


Immunofluorescence analysis of U251 cells using Fyn Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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Flow cytometric analysis of Hela cells using Fyn Monoclonal Antibody (green) and negative control (purple).

