

**Fyn Polyclonal Antibody**  
Catalog # AP69989**Specification****Fyn Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P06241</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**Fyn Polyclonal Antibody - Additional Information**

Gene ID 2534

**Other Names**

FYN; Tyrosine-protein kinase Fyn; Proto-oncogene Syn; Proto-oncogene c-Fyn; Src-like kinase; SLK; p59-Fyn

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Fyn Polyclonal Antibody - Protein Information**

Name FYN

**Function**

Non-receptor tyrosine-protein kinase that plays a role in many biological processes including regulation of cell growth and survival, cell adhesion, integrin-mediated signaling, cytoskeletal remodeling, cell motility, immune response and axon guidance (PubMed:<a href="http://www.uniprot.org/citations/11536198" target="\_blank">11536198</a>, PubMed:<a href="http://www.uniprot.org/citations/15489916" target="\_blank">15489916</a>, PubMed:<a href="http://www.uniprot.org/citations/15557120" target="\_blank">15557120</a>, PubMed:<a href="http://www.uniprot.org/citations/16387660" target="\_blank">16387660</a>, PubMed:<a href="http://www.uniprot.org/citations/20100835" target="\_blank">20100835</a>, PubMed:<a href="http://www.uniprot.org/citations/7568038" target="\_blank">7568038</a>, PubMed:<a href="http://www.uniprot.org/citations/7822789" target="\_blank">7822789</a>). Inactive FYN is phosphorylated on its C-terminal tail within the catalytic domain (PubMed:<a href="http://www.uniprot.org/citations/15489916" target="\_blank">15489916</a>). Following activation by PKA, the protein subsequently associates with PTK2/FAK1, allowing PTK2/FAK1 phosphorylation, activation and targeting to focal adhesions (PubMed:<a href="http://www.uniprot.org/citations/15489916" target="\_blank">15489916</a>). Involved in

the regulation of cell adhesion and motility through phosphorylation of CTNNB1 (beta-catenin) and CTNND1 (delta-catenin) (PubMed:<a href="http://www.uniprot.org/citations/17194753" target="\_blank">17194753</a>). Regulates cytoskeletal remodeling by phosphorylating several proteins including the actin regulator WAS and the microtubule-associated proteins MAP2 and MAPT (PubMed:<a href="http://www.uniprot.org/citations/14707117" target="\_blank">14707117</a>, PubMed:<a href="http://www.uniprot.org/citations/15536091" target="\_blank">15536091</a>). Promotes cell survival by phosphorylating AGAP2/PIKE- A and preventing its apoptotic cleavage (PubMed:<a href="http://www.uniprot.org/citations/16841086" target="\_blank">16841086</a>). Participates in signal transduction pathways that regulate the integrity of the glomerular slit diaphragm (an essential part of the glomerular filter of the kidney) by phosphorylating several slit diaphragm components including NPHS1, KIRREL1 and TRPC6 (PubMed:<a href="http://www.uniprot.org/citations/14761972" target="\_blank">14761972</a>, PubMed:<a href="http://www.uniprot.org/citations/18258597" target="\_blank">18258597</a>, PubMed:<a href="http://www.uniprot.org/citations/19179337" target="\_blank">19179337</a>). Plays a role in neural processes by phosphorylating DPYSL2, a multifunctional adapter protein within the central nervous system, ARHGAP32, a regulator for Rho family GTPases implicated in various neural functions, and SNCA, a small pre-synaptic protein (PubMed:<a href="http://www.uniprot.org/citations/11162638" target="\_blank">11162638</a>, PubMed:<a href="http://www.uniprot.org/citations/12788081" target="\_blank">12788081</a>, PubMed:<a href="http://www.uniprot.org/citations/19652227" target="\_blank">19652227</a>). Involved in reelin signaling by mediating phosphorylation of DAB1 following reelin (RELN)- binding to its receptor (By similarity). Participates in the downstream signaling pathways that lead to T-cell differentiation and proliferation following T-cell receptor (TCR) stimulation (PubMed:<a href="http://www.uniprot.org/citations/22080863" target="\_blank">22080863</a>). Phosphorylates PTK2B/PYK2 in response to T-cell receptor activation (PubMed:<a href="http://www.uniprot.org/citations/20028775" target="\_blank">20028775</a>). Also participates in negative feedback regulation of TCR signaling through phosphorylation of PAG1, thereby promoting interaction between PAG1 and CSK and recruitment of CSK to lipid rafts (PubMed:<a href="http://www.uniprot.org/citations/18056706" target="\_blank">18056706</a>). CSK maintains LCK and FYN in an inactive form (By similarity). Promotes CD28-induced phosphorylation of VAV1 (PubMed:<a href="http://www.uniprot.org/citations/11005864" target="\_blank">11005864</a>). In mast cells, phosphorylates CLNK after activation of immunoglobulin epsilon receptor signaling (By similarity). Can also promote CD244-mediated NK cell activation (PubMed:<a href="http://www.uniprot.org/citations/15713798" target="\_blank">15713798</a>).

#### Cellular Location

Cytoplasm. Nucleus Cell membrane. Perikaryon {ECO:0000250|UniProtKB:Q62844} Note=Present and active in lipid rafts (PubMed:12218089) Palmitoylation is crucial for proper trafficking (PubMed:8206991)

#### Tissue Location

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

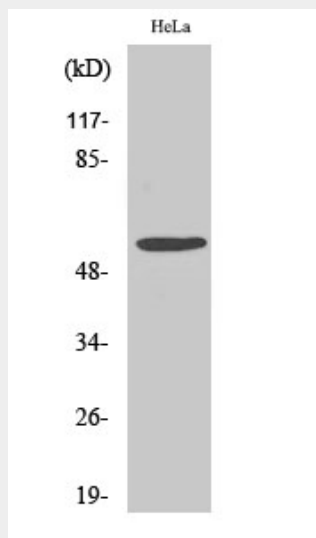
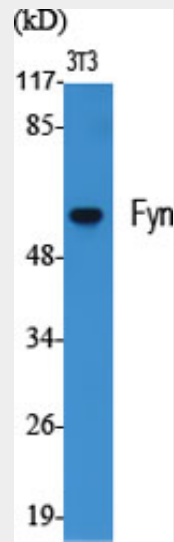
### Fyn Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

### Fyn Polyclonal Antibody - Images



### Fyn Polyclonal Antibody - Background

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phosphorylating several slit diaphragm components including NPHS1, KIRREL1 and TRPC6. Plays a role in neural processes by phosphorylating DPYSL2, a multifunctional adapter protein within the central nervous system, ARHGAP32, a regulator for Rho family GTPases implicated in various neural functions, and SNCA, a small pre-synaptic protein. Participates in the downstream signaling pathways that lead to T-cell differentiation and proliferation following T-cell receptor (TCR) stimulation. Phosphorylates PTK2B/PYK2 in response to T-cell receptor activation. Also participates in negative feedback regulation of TCR signaling through phosphorylation of PAG1, thereby promoting interaction between PAG1 and CSK and recruitment of CSK to lipid rafts. CSK maintains LCK and FYN in an inactive form. Promotes CD28-induced phosphorylation of VAV1.