

**Anti-Fyn Rabbit Monoclonal Antibody**  
Catalog # ABO13234

**Specification**

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**Anti-Fyn Rabbit Monoclonal Antibody - Product Information**

Application	WB, IF, ICC
Primary Accession	<a href="#">P06241</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Fyn Rabbit Monoclonal Antibody . Tested in WB, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

**Anti-Fyn Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 2534

**Other Names**

Tyrosine-protein kinase Fyn, 2.7.10.2, Proto-oncogene Syn, Proto-oncogene c-Fyn, Src-like kinase, SLK, p59-Fyn, FYN

**Calculated MW**

60762 MW KDa

**Application Details**

WB 1:500-1:2000<br>ICC/IF 1:50-1:200

**Subcellular Localization**

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

**Tissue Specificity**

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

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Fyn

**Purification**

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term**

storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

## Anti-Fyn Rabbit Monoclonal 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

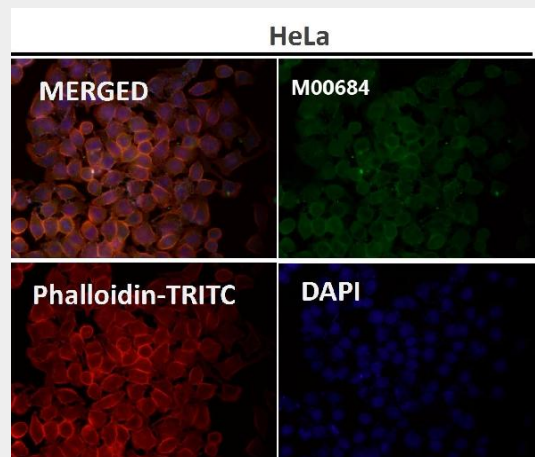
Isoform 1 is highly expressed in the brain. Isoform 2 is expressed in cells of hemopoietic lineages, especially T- lymphocytes.

### Anti-Fyn Rabbit Monoclonal Antibody - Protocols

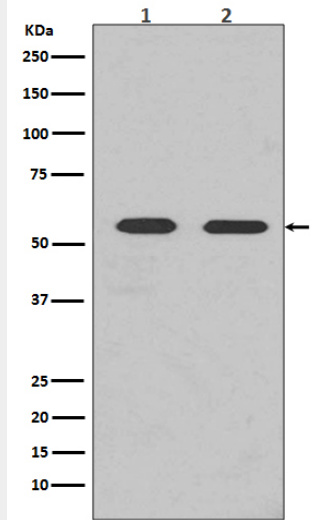
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-Fyn Rabbit Monoclonal Antibody - Images



Immunofluorescent analysis using the Antibody at 1:50 dilution.



Western blot analysis of Fyn expression in (1) Mouse brain lysate; (2) HEK293 cell lysate.