

# FYN Rabbit mAb

Catalog # AP75465

## Product Information

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Application	WB
Primary Accession	<a href="#">P06241</a>
Reactivity	Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	60762

## Additional Information

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Gene ID	2534
Other Names	FYN
Dilution	WB~~1/500-1/1000
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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Name	FYN
Function	<p>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="#">11536198</a>, PubMed:<a href="#">15489916</a>, PubMed:<a href="#">15557120</a>, PubMed:<a href="#">16387660</a>, PubMed:<a href="#">20100835</a>, PubMed:<a href="#">7568038</a>, PubMed:<a href="#">7822789</a>). Inactive FYN is phosphorylated on its C-terminal tail within the catalytic domain (PubMed:<a href="#">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="#">15489916</a>). Involved in the regulation of cell adhesion and motility through phosphorylation of CTNNB1 (beta-catenin) and CTNND1 (delta-catenin) (PubMed:<a href="#">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="#">14707117</a>, PubMed:<a href="#">15536091</a>). Promotes cell survival by phosphorylating AGAP2/PIKE- A and preventing its apoptotic cleavage (PubMed:<a href="#">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</p>

phosphorylating several slit diaphragm components including NPHS1, KIRREL1 and TRPC6 (PubMed:[14761972](#), PubMed:[18258597](#), PubMed:[19179337](#)). 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:[11162638](#), PubMed:[12788081](#), PubMed:[19652227](#)). 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:[22080863](#)). Phosphorylates PTK2B/PYK2 in response to T-cell receptor activation (PubMed:[20028775](#)). 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:[18056706](#)). CSK maintains LCK and FYN in an inactive form (By similarity). Promotes CD28-induced phosphorylation of VAV1 (PubMed:[11005864](#)). In mast cells, phosphorylates CLNK after activation of immunoglobulin epsilon receptor signaling (By similarity). Can also promote CD244-mediated NK cell activation (PubMed:[15713798](#)).

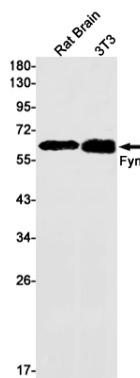
### Cellular Location

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.

## Images



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