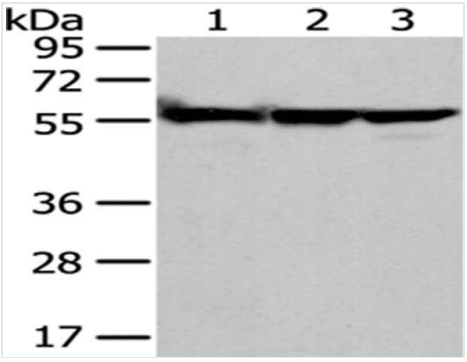
# FYN Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | FYN, Polyclonal Antibody |
| **Full Product Name** | FYN Antibody |
| **Product Gene Name** | anti-FYN antibody |
| **Product Synonym Names** | FYN proto-oncogene; Src family Tyrosine kinase |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol |
| **Purity/Purification** | Antigen Affinity Purification |
| **Preparation and Storage** | Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze. |
| **Molecular Weight** | 60,762 Da |
| **Chromosome Location** | Chromosome: 6; NC_000006.11 (111981535..112194655, complement). Location: 6q21 |
| **OMIM** | 137025 |
| **3D Structure** | ModBase 3D Structure for P06241 |
| **Immunogen** | Synthetic peptide of human FYN |
| **Immunogen Species** | Human |
| **Conjugate** | Non-conjugated |
| **Product Categories/Family for anti-FYN antibody** | Neuroscience |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-FYN antibody** | ELISA (EIA), Western Blot (WB) |
| **Application Notes for anti-FYN antibody** | ELISA: 1:2000-1:5000<br>WB: 1:500-1:2000 |
| **Related Product Information for anti-FYN antibody** | MBS7130175 is an antibody targeting FYN. Also known as FYN Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-FYN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**SDS-PAGE of anti-FYN antibody**
Gel: 8%SDS-PAGE, Lysate: 40 ug, Lane 1-3: A549, hela and 293T cell, Primary antibody: MBS7130175(FYN Antibody) at dilution 1/200 dilution, Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 10 seconds

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FYN. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4503823 |
| **NCBI GeneID** | 2534 |
| **NCBI Accession #** | NP_002028.1 |
| **UniProt Primary Accession #** | P06241 |
| **UniProt Secondary Accession #** | Q16248; Q5R3A6; Q5R3A7; Q8N5D7; B5BU57; E1P557; H0UI48 |
| **UniProt Related Accession #** | P06241 |
| **GenBank Nucleotide #** | NM_002037.5 |
| **NCBI Official Full Name** | tyrosine-protein kinase Fyn isoform a |
| **NCBI Official Synonym Full Names** | FYN oncogene related to SRC, FGR, YES |
| **NCBI Official Symbol** | FYN |
| **NCBI Official Synonym Symbols** | SLK; SYN; p59-FYN |
| **UniProt Protein Name** | Tyrosine-protein kinase Fyn |
| **UniProt Synonym Protein Names** | Proto-oncogene Syn; Proto-oncogene c-Fyn; Src-like kinase; SLK; p59-Fyn |
| **Protein Family** | Tyrosine-protein kinase |
| **UniProt Gene Name** | FYN |
| **UniProt Synonym Gene Names** | SLK |
| **UniProt Entry Name** | FYN_HUMAN |
| **NCBI Protein Information** | tyrosine-protein kinase Fyn; src-like kinase; proto-oncogene Syn; c-syn protooncogene; proto-oncogene c-Fyn; src/yes-related novel; tyrosine kinase p59fyn(T); OKT3-induced calcium influx regulator |
| **NCBI Summary for FYN** | 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] |

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| **UniProt Comments for FYN** | Fyn: a tyrosine kinase of the Src family. Implicated in the control of cell growth. Plays a role in the regulation of intracellular calcium levels. 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. Associates with the p85 subunit of phosphatidylinositol 3-kinase and interacts with the fyn-binding protein. Three alternatively spliced isoforms have been described. Isoform 2 shows a greater ability to mobilize cytoplasmic calcium than isoform 1. Induced expression aids in cellular transformation and xenograft metastasis. In squamous cell carcinoma, Fyn transduces signals from EGFR and Src and is required for cell migration and invasiveness. Activity linked to migration in a murine melanoma model. Appears to block late stage development of neuroblastoma. Mouse knockout deficient in kindling response, a model for human epilepsy.<br><br>Protein type: Protein kinase, TK; Oncoprotein; Protein kinase, tyrosine (non-receptor); EC 2.7.10.2; Kinase, protein; TK group; Src family<br><br>Chromosomal Location of Human Ortholog: 6q21<br><br>Cellular Component: extrinsic to internal side of plasma membrane; mitochondrion; postsynaptic density; plasma membrane; actin filament; cytosol; nucleus; endosome; lipid raft<br><br>Molecular Function: tubulin binding; CD8 receptor binding; ephrin receptor binding; metal ion binding; non-membrane spanning protein tyrosine kinase activity; protein binding; G-protein-coupled receptor binding; peptide hormone receptor binding; protein-tyrosine kinase activity; T cell receptor binding; phosphoinositide 3-kinase binding; glycoprotein binding; CD4 receptor binding; ATP binding<br><br>Biological Process: axon guidance; central nervous system development; viral reproduction; T cell activation; nerve growth factor receptor signaling pathway; neuron migration; protein amino acid phosphorylation; T cell receptor signaling pathway; regulation of apoptosis; regulation of cell shape; calcium ion transport; forebrain development; ephrin receptor signaling pathway; feeding behavior; negative regulation of neuron apoptosis; cell differentiation; epidermal growth factor receptor signaling pathway; response to drug; platelet activation; cell migration; fibroblast growth factor receptor signaling pathway; positive regulation of I-kappaB kinase/NF-kappaB cascade; phosphoinositide-mediated signaling; dendrite morphogenesis; activated T cell proliferation; learning; regulation of defense response to virus by virus; regulation of cell proliferation; positive regulation of phosphoinositide 3-kinase cascade; detection of mechanical stimulus involved in sensory perception of pain; response to ethanol; T cell costimulation; innate immune response; negative regulation of protein catabolic process; blood coagulation; vascular endothelial growth factor receptor signaling pathway; leukocyte migration; transmembrane receptor protein tyrosine kinase signaling pathway |
| **Research Articles on FYN** | **1.** Fyn regulates the activity of the adipogenic transcription factor signal transducer and activator of transcription 5a (STAT5a) through enhancing its interaction with the GTPase phosphoinositide 3-kinase enhancer A (PIKE-A). |
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