FYN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Fyn, Polyclonal Antibody
Full Product Name	Fyn, NT (FYN Oncogene Related to SRC FGR YES, MGC45350, p59-Fyn, Proto-oncogene c-Fyn, Proto-oncogene Syn, SLK, SYN, Tyrosine Protein Kinase Fyn) (MaxLight 650)
Product Gene Name	anti-Fyn antibody
Product Synonym Names	EC=2.7.10.2; p59-Fyn; Protein Tyrosine Kinase Fyn; Proto-oncogene Tyrosine Protein Kinase Fyn; Src Yes Related Novel Gene; Src/yes Related Novel Gene
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human FYN.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
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 selected from the N-terminal region of human FYN (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-Fyn antibody	Antibodies; Tyrosine Kinases
Applications Tested/Suitable for anti-Fyn antibody	Western Blot (WB), FLISA
Application Notes for anti-Fyn antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Fyn antibody	MBS6477235 is an antibody targeting Fyn. Also known as Fyn, NT (FYN Oncogene Related to SRC FGR YES, MGC45350, p59-Fyn, Proto-oncogene c-Fyn, Proto-oncogene Syn, SLK, SYN, Tyrosine Protein Kinase Fyn) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-Fyn antibody	1. Taniguchi, S., et al., Biochem. Biophys. Res. Commun. 306(1):151-155 (2003). 2. Chan, B., et al., Nat. Cell Biol. 5(2):155-160 (2003). 3. Goldsmith, J.F., et al., Biochem. Biophys. Res. Commun. 298(4):501-504 (2002). 4. Freund, C., et al., EMBO J. 21(22):5985-5995 (2002). 5. Parravicini, V., et al., Nat. Immunol. 3(8):741-748 (2002).

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.

ADDITIONAL DETAILS

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

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]

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. Protein type: Protein kinase, TK; Oncoprotein; Protein kinase, tyrosine (non-receptor); EC 2.7.10.2; Kinase, protein; TK group; Src family Chromosomal Location of Human Ortholog: 6q21 Cellular Component: extrinsic to internal side of plasma membrane; mitochondrion; postsynaptic density; plasma membrane; actin filament; cytosol; nucleus; endosome; lipid raft 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 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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