

Immunotag™ Fyn mouse mAb

Antibody Specification	
Catalog No.	ITM1307
Product Description	Immunotag™ Fyn mouse mAb
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Fyn
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB,ICC
Recommended Dilution	wb 1:500 icc 1:50
Concentration	1 mg/ml
Reactive Species	Human,Monkey,Rat,Mouse
Host Species	Mouse
Immunogen	Purified recombinant human Fyn protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of Fyn and does not cross-react with related proteins.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	fyn
Accession No.	P06241 P39688
Alternate Names	C syn protooncogene;Fyn;FYN oncogene related to SRC FGR YES;FYN_HUMAN;MGC45350;OKT3 induced calcium influx regulator;P59 FYN;p59-Fyn;Protein tyrosine kinase fyn;Proto oncogene tyrosine protein kinase fyn;Proto-oncogene c-Fyn;Proto-oncogene Syn;Protooncogene Syn;SLK;Src like kinase;Src yes related novel gene;Src-like kinase;Src/yes related novel;Src/yes related novel gene;SYN;Tyrosine kinase p59fyn T;Tyrosine kinase p59fyn(T);Tyrosine-protein kinase Fyn.

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Description	FYN proto-oncogene, Src family tyrosine kinase(FYN) Homo sapiens 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],
Cell Pathway/ Category	Axon guidance,Focal adhesion,Adherens_Junction,Natural killer cell mediated cytotoxicity,T_Cell_Receptor,Fc epsilon RI,Prion diseases,Pathogenic Escherichia coli infection,Viral myocarditis,
Protein Expression	Blood,Lung,Placenta,Platelet,T-cell,
Subcellular Localization	nucleus,mitochondrion,endosome,cytosol,actin filament,plasma membrane,postsynaptic density,extrinsic component of cytoplasmic side of plasma membrane,membrane raft,
Protein Function	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,cofactor:Manganese.,enzyme regulation:Inhibited by phosphorylation of Tyr-531 by leukocyte common antigen and activated by dephosphorylation of this site.,function:Implicated in the control of cell growth. Plays a role in the regulation of intracellular calcium levels, with isoform 2 showing the greater ability to mobilize cytoplasmic calcium in comparison to isoform 1. 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.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SH2 domain.,similarity:Contains 1 SH3 domain.,subcellular location:Present and active in lipid rafts. Present in cell body and along the process of mature and developing oligodendrocytes.,subunit:Associates through its SH3 domain, to the p85 subunit of phosphatidylinositol 3-kinase. Interacts with the FYN-binding protein (FYB). Interacts with phosphorylated TOM1L1. Interacts with CD79A upon activation of the B-cell antigen receptor which increases FYN activity (By similarity). Interacts with PAG1. Interacts (via SH3 domain) with PRMT8. Interacts with SH2D1A and SLAMF1. Interacts (via SH3 domain) with HEV ORF3 protein.,tissue specificity:Isoform 1 is highly expressed in the brain, isoform 2 is expressed in cells of hemopoietic lineages, especially T lymphocytes.,
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