# Mouse anti-Human FYN Monoclonal Antibody | anti-FYN antibody

FYN Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA283521** | **Mouse** | **Human** | **Flow Cytometry, Functional Assay, Western Blot, Immunohistochemistry, ELISA** |

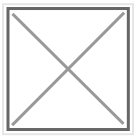
## PRODUCT SYNONYMS

FYN; Monoclonal Antibody; FYN Antibody; Tyrosine-protein kinase Fyn; Proto-oncogene Syn; Proto-oncogene c-Fyn; Src-like kinase; SLK; p59-Fyn; anti-FYN antibody

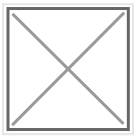
## PRODUCT SPECIFICATIONS

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|---|---|
| **Host** | Mouse |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1,kappa |
| **Clone Number** | 1302CT390.118.237 |
| **Specificity** | This FYN antibody is generated from a mouse immunized with a recombinant preotein from human FYN. |
| **Purity/Purification** | Purified Mouse Monoclonal Antibody (Mab) |
| **Form/Format** | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS. |
| **Concentration** | Vial Concentration: 0.5 (varies by lot) |
| **Sequence Length** | 537 |
| **Applicable Applications for anti-FYN antibody** | FCM/FACS (Flow Cytometry), WB (Western Blot), IHC (Immunohistochemistry), ELISA |
| **Antigen Type** | Recombinant Protein |
| **Crown Antibody** | Yes |
| **Antigen Source** | HUMAN |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

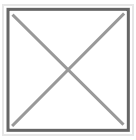
## IMAGES



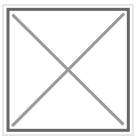
**WB (Western Blot)**
Western blot analysis of lysate from 293 cell line using FYN. AAA283521 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysate at 35ug per lane.



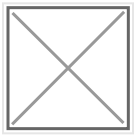
**IHC (Immunohistochemistry)**
Immunohistochemical analysis of paraffin-embedded R. spleen section using FYN. AAA283521 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



**IHC (Immunohistochemisry)**
Immunohistochemical analysis of paraffin-embedded M. spleen section using FYN. AAA283521 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



**IHC (Immunohiostchemistry)**
Immunohistochemical analysis of paraffin-embedded H. tonsil section using FYN. AAA283521 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



**FCM/FACS (Flow Cytometry)**
Flow cytometric analysis of Hela cells using FYN(green) compared to an isotype control of mouse IgG1(blue). AAA283521 was diluted at 1:25 dilution. An Alexa Fluor 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-FYN antibody** | 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. Inactive FYN is phosphorylated on its C-terminal tail within the catalytic domain. Following activation by PKA, the protein subsequently associates with PTK2/FAK1, allowing PTK2/FAK1 phosphorylation, activation and targeting to focal adhesions. Involved in the regulation of cell adhesion and motility through phosphorylation of CTNNB1 (beta-catenin) and CTNND1 (delta- catenin). Regulates cytoskeletal remodeling by phosphorylating several proteins including the actin regulator WAS and the microtubule-associated proteins MAP2 and MAPT. Promotes cell survival by phosphorylating AGAP2/PIKE-A and preventing its apoptotic cleavage. 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, KIRREL and TRPC6. 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. Participates in the downstream signaling pathways that lead to T-cell differentiation and proliferation following T-cell receptor (TCR) stimulation. 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. CSK maintains LCK and FYN in an inactive form. Promotes CD28-induced phosphorylation of VAV1. |
| **Product Categories/Family for anti-FYN antibody** | Crown Antibodies; Cancer; Neuroscience; Signal Transduction |
| **References** | Kawakami T.,et al.Mol. Cell. Biol. 6:4195-4201(1986).<br>Semba K.,et al.Proc. Natl. Acad. Sci. U.S.A. 83:5459-5463(1986).<br>Rigley K.,et al.J. Immunol. 154:1136-1145(1995).<br>Goshima N.,et al.Nat. Methods 5:1011-1017(2008).<br>Mungall A.J.,et al.Nature 425:805-811(2003). |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 4503823 |
| **NCBI GeneID** | 2534 |
| **NCBI Accession #** | NP_002028.1 |
| **NCBI GenBank Nucleotide #** | NM_002037.5 |
| **UniProt Accession #** | P06241; Q16248; Q5R3A6; Q5R3A7; Q8N5D7; B5BU57; E1P557; H0UI48 |
| **Molecular Weight** | 60762 |
| **NCBI Official Full Name** | tyrosine-protein kinase Fyn isoform a |
| **NCBI Official Synonym Full Names** | FYN proto-oncogene, Src family tyrosine kinase |

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| **NCBI Official Symbol** | FYN |
| **NCBI Official Synonym Symbols** | SLK; SYN; p59-FYN |
| **NCBI Protein Information** | tyrosine-protein kinase Fyn |
| **UniProt Protein Name** | Tyrosine-protein kinase Fyn |
| **UniProt Gene Name** | **FYN** |
| **UniProt Synonym Gene Names** | SLK |
| **UniProt Entry Name** | FYN_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

**AAA Biotech** | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/fyn-antibody-clone-1302ct390-118-237-flow-cytometry-western-blot-immunohistochemistry-elisa/283521