

Product datasheet for TP508560

Fyn (NM_008054) Mouse Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Mouse Fyn proto-oncogene (Fyn), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| Species: | Mouse |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >MR208560 protein sequence Red =Cloning site Green =Tags(s) MGCVQCKDKEAAKLTEERDGS LNQSSGYRYGTDPTPQHYP SFGVTSIPNYNNFHAAGGQGLTVFGGVNS S SHTGTLRTRGGTGVTLFVALYDYEARTEDDLSFHKGEKFQILNSSEG DWWEARSLTTGETGYIPSNYVAP VDSIQAE EWYFGKLGRKDAERQLLSFGNPRGTFLIRESETTKGAYSL SIRDWDDMKGDHVKHYKIRKLDN GGYITTRAQFETLQQLVQHYSEKADGLCFNLTVSSSCTPQTSG LAKDAWEVARDSLFLEKKLGQGCFA EVWLG TWNGNTKVAIKTLKPGTMSPE SFLEEAQIMKKLKHDKLVQLYAVVSE EPIYIVTEYMSKGSLLDF LKDGEGRA LKLPNLVDMAAQVAAGMAYIERMNYIHRDLRSANILVGNGLICKIADFLARLIEDNEYTAR QGAKFPIKWTAP EAAALYGRFTIKSDVWSFGILLTELVT KGRVPYPGMNNREVLEQVERGYRMPCPQDCPI SLHELMIH CWKKDPEERPTFEYLQGFLEDYFTATEPQYQPGENL TR TRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-MYC/DDK |
| Predicted MW: | 60.1 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C after receiving vials. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |


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RefSeq: [NP_032080](#)

Locus ID: 14360

UniProt ID: [P39688](#)

RefSeq Size: 3535

Cytogenetics: 10 20.51 cM

RefSeq ORF: 1602

Synonyms: AI448320; AW552119

Summary: 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, KIRREL1 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. Phosphorylates PTK2B/PYK2 in response to T-cell receptor activation. 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.[UniProtKB/Swiss-Prot Function]