

## Product datasheet for **TP508560**

### Fyn (NM\_008054) Mouse Recombinant Protein

#### Product data:

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)

MGCVQCKDKEAAKLTEERDGSLNQSSGYRYGTDPTPQHYPSTFSGVTSIPNYNNFHAAGGQGLTVFGGVNSS  
SHTGTLRTRGGTGVTLFVALYDYEARTEDDLSFHKGEKFQILNSSEGDWWEARSLTTGETGYIPSNYVAP  
VDSIQAEWYFGKLGKDAERQLLSFGNPRGTFLIRESSTKAYSLSIRDWDDMKGDHVKHYKIRKLDN  
GGYITTRAQFETLQQLVQHYSEKADGLCFNLTVSSSCTPQTSGLAKDAWEVARDSLFLKGLGQGCFA  
EWWLGTWNGNTKVAIKTLKPGTMSPEFLEEAQIMKKLKHDKLVQLYAVVSEPIYIVTEYMSKGSLLDF  
LKDGEGRALKLPNLVDMQAQAAGMAYIERMNYIHRDLRSANILVGNGLICKIADFLARLIEDNEYTAR  
QGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELVTKGRVYPGMNREVLEQVERGYRMPCPQDCPI  
SLHELMIHCVKWDPEERPTFEYLQGFLEDYFTATEPQYQPGENL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.
RefSeq:	<a href="#">NP_032080</a>



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Locus ID:	14360
UniProt ID:	<a href="#">P39688</a>
RefSeq Size:	3535
Cytogenetics:	10 20.51 cM
RefSeq ORF:	1605
Synonyms:	AI448320; AW552119
Summary:	<p>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]</p>