

## Product datasheet for TP508281

### Fgr (NM\_010208) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse FGR proto-oncogene, Src family tyrosine kinase (Fgr), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR208281 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MGCVFCKKLEPASKEDVGLEGDFRSQTAEERYYPDPTQGR TSSVFPQPTSPAFLNTGNMRSISGTGVTIF VALYDYEARTGDDLFTTKGEKFHILNNT EYDWWEARSLSSGHRGYVPSNYVAPVDSIQAE EWFYFGKISRK DAERQLSSGNPQGAFLIRESETTKGAYSL SIRDWDQNRGDHIKHYKIRKLD TG GYYITTRAQFDSIQDL VRHYMEVNDGLCYLLTAPCTTTK PQTGLAKDAWEIDRNSIALERRLTGCGFDVWLGTWNCSTKVAVKT LKPGTMSPKAFLEEAQIMKLLRHDKLV QLYAVVSEEPYIVTEFMCYGSLLDFLKDREGQNLMLPHLVDM AAQVAEGMAYMERMNYIHRDLRAANIL VGEYLICKIADFGLARLIEDNEYNPQQGTFKFIKWTAP EAAALF GRFTVKSDVWSFGILLTELTKGRVPY PGMNNREVLEQVEHGYHMP CPPGPCASLYEVMEQAWRLDPEE R PTFEYLQS FLEDYFTSTEPQYQPGDQT  <span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-MYC/DDK
Predicted MW:	58.9 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\\_034338](#)

Locus ID: 14191

UniProt ID: [P14234](#)

RefSeq Size: 3353

Cytogenetics: 4 66.11 cM

RefSeq ORF: 1551

**Summary:** Non-receptor tyrosine-protein kinase that transmits signals from cell surface receptors devoid of kinase activity and contributes to the regulation of immune responses, including neutrophil, monocyte, macrophage and mast cell functions, cytoskeleton remodeling in response to extracellular stimuli, phagocytosis, cell adhesion and migration. Promotes mast cell degranulation, release of inflammatory cytokines and IgE-mediated anaphylaxis. Acts downstream of receptors that bind the Fc region of immunoglobulins, such as MS4A2/FCER1B, FCER1G and FCGR2. Acts downstream of ITGB1 and ITGB2, and regulates actin cytoskeleton reorganization, cell spreading and adhesion. Depending on the context, activates or inhibits cellular responses. Functions as negative regulator of ITGB2 signaling, phagocytosis and SYK activity in monocytes (PubMed:11672534). Required for normal ITGB1 and ITGB2 signaling, normal cell spreading and adhesion in neutrophils and macrophages (PubMed:8666673 and PubMed:9687507). Functions as positive regulator of cell migration and regulates cytoskeleton reorganization via RAC1 activation (PubMed:15561106). Phosphorylates SYK (in vitro) and promotes SYK-dependent activation of AKT1 and MAP kinase signaling (PubMed:21746961). Phosphorylates PLD2 in antigen-stimulated mast cells, leading to PLD2 activation and the production of the signaling molecules lysophosphatidic acid and diacylglycerol. Promotes activation of PIK3R1. Phosphorylates FASLG, and thereby regulates its ubiquitination and subsequent internalization. Phosphorylates ABL1. Promotes phosphorylation of CBL, CTTN, PIK3R1, PTK2/FAK1, PTK2B/PYK2 and VAV2. Phosphorylates HCLS1 that has already been phosphorylated by SYK, but not unphosphorylated HCLS1. [UniProtKB/Swiss-Prot Function]