FGR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FGR, Polyclonal Antibody
Full Product Name	FGR (Tyrosine-protein Kinase Fgr, Gardner-Rasheed Feline Sarcoma Viral (v-fgr) Oncogene Homolog, Proto-oncogene c-Fgr, p55-Fgr, p58-Fgr, p58c-
Product Gene Name	anti-FGR antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human FGR.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	59,479 Da
OMIM	164940
3D Structure	ModBase 3D Structure for P09769
Immunogen	Full length human FGR, aa1-529 (NP_005239.1).
Immunogen Sequence	MGCVFCKKLEPVATAKEDAGLEGDFRSYGAADHYGPDPTKARPASSFAHIPNYSNFSSQAINPGFLDSGTIRGVSGIGVTLFIALYDYEARTEDDLTFTKG
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-FGR antibody	Antibodies; Tyrosine Kinases
Applications Tested/Suitable for anti-FGR antibody	Western Blot (WB)
Application Notes for anti-FGR antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-FGR antibody	FGR is a member of the Src family of protein tyrosine kinases (PTKs). This protein contains N-terminal sites for myristylation and palmitylation, a PTK d

Other Notes	Small volumes of anti-FGR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa
Searchable Terms for FGR purchase	MBS6378600 is an antibody targeting FGR. Also known as FGR (Tyrosine-protein Kinase Fgr, Gardner-Rasheed Feline Sarcoma Viral (v-fgr) Oncoger

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGR. It may not necessarily be applicable to this product.

NCBI GI #	4885235
NCBI GeneID	2268
NCBI Accession #	NP_005239.1
UniProt Primary Accession #	P09769
UniProt Secondary Accession #	Q9UIQ3; D3DPL7
UniProt Related Accession #	P09769
GenBank Nucleotide #	NM_005248.2
NCBI Official Full Name	tyrosine-protein kinase Fgr
NCBI Official Synonym Full Names	FGR proto-oncogene, Src family tyrosine kinase
NCBI Official Symbol	FGR
NCBI Official Synonym Symbols	SRC2; c-fgr; c-src2; p55-Fgr; p58-Fgr; p55c-fgr; p58c-fgr
UniProt Protein Name	Tyrosine-protein kinase Fgr
UniProt Synonym Protein Names	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog; Proto-oncogene c-Fgr; p55-Fgr; p58-Fgr; p58c-Fgr
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	FGR
UniProt Synonym Gene Names	SRC2
UniProt Entry Name	FGR_HUMAN
NCBI Protein Information	tyrosine-protein kinase Fgr; p55-c-fgr protein; c-fgr protooncogene; proto-oncogene c-Fgr; c-src-2 proto-oncogene; proto-oncogene tyrosine-protein kinase FGR; feline Gardner-Rasheed sarcoma viral oncogene homolog; v-fgr feline Gardner-Rasheed sarcoma vira
NCBI Summary for FGR	This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded protein contains N-terminal sites for myristylation and palmitylation, a PTK domain, and SH2 and SH3 domains which are involved in mediating protein-protein interactions with phosphotyrosine-containing and proline-rich motifs, respectively. The protein localizes to plasma membrane ruffles, and functions as a negative regulator of cell migration and adhesion triggered by the beta-2 integrin signal transduction pathway. Infection with Epstein-Barr virus results in the overexpression of this gene. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]

UniProt Comments for FGR	FGR: a non-receptor tyrosine kinase of the Src family. Contains one SH2 and one SH3 domain. Beta 2 integrin signaling induces its c-Cbl-mediated ubiquitination in adherent neutrophils. An ortholog of v-fgr feline oncogene. Mildly amplified in hormone-resistant prostate cancer. Copy number either increased or decreased in other cancers. Protein type: Protein kinase, TK; Kinase, protein; EC 2.7.10.2; Mitochondrial; Oncoprotein; Protein kinase, tyrosine (non-receptor); TK group; Src family Chromosomal Location of Human Ortholog: 1p36.2-p36.1 Cellular Component: extrinsic to internal side of plasma membrane; cytoskeleton; mitochondrial inner membrane; plasma membrane; mitochondrial intermembrane space; cytosol; actin cytoskeleton Molecular Function: protein binding; phosphotyrosine binding; protein-tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; protein kinase binding; ATP binding Biological Process: integrin-mediated signaling pathway; cell migration; peptidyl-tyrosine phosphorylation; response to virus; protein amino acid autophosphorylation; positive regulation of phosphoinositide 3-kinase activity; immune response-regulating cell surface receptor signaling pathway; positive regulation of mast cell degranulation; regulation of phagocytosis; protein amino acid phosphorylation; regulation of innate immune response; regulation of cell proliferation; positive regulation of phosphoinositide 3-kinase cascade; regulation of cell shape; defense response to Gram-positive bacterium; innate immune response; regulation of protein kinase activity; blood coagulation; cell differentiation; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of cell migration; positive regulation of cytokine secretion
Research Articles on FGR	**1.** Data indicate that combined treatment using SFK (LYN, HCK, or FGR) and c-KIT inhibitor dasatinib dasatinib and chemotherapy provides a novel approach to increasing p53 activity and enhancing targeting of acute myeloid leukemia (AML) stem cells.
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