FGR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FGR, Polyclonal Antibody
Full Product Name	FGR, NT (Proto-oncogene c-Fgr, Tyrosine-protein Kinase Fgr, P55-FGR, SRC2) (MaxLight 405)
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 MaxLight405.
Purity/Purification	Purified by Protein G 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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	59,479 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (27938800..27961727, complement). Location: 1p36.2-p36.1
OMIM	164940
3D Structure	ModBase 3D Structure for P09769
Immunogen	Synthetic peptide selected from the N-terminal region of human FGR (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-FGR antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-FGR antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-FGR antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-FGR antibody	MBS6475939 is an antibody targeting FGR. Also known as FGR, NT (Proto-oncogene c-Fgr, Tyrosine-protein Kinase Fgr, P55-FGR, SRC2) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-FGR antibody	1. Carriero, M.V., et al., Biol. Chem. 383(1):107-113 (2002). 2. Katamine, S., et al., Mol. Cell. Biol. 8(1):259-266 (1988). 3. Nishizawa, M., et al., Mol. Cell. Biol. 6(2):511-517 (1986). 4. Cheah, M.S., et al., Nature 319(6050):238-240 (1986). 5. Tronick, S.R., et al., Proc. Natl. Acad. Sci. USA 82(19):6595-6599 (1985). 6.Oleg Tatarov, et al. Clin. Cancer Res. published 15 May 2009, 10.1158/1078-0432. CCR-08-1857. (E-pub).

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 necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

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

NCBI GI #	112382241
NCBI GeneID	2268
NCBI Accession #	NP_001036194.1
UniProt Primary Accession #	P09769
UniProt Secondary Accession #	Q9UIQ3; D3DPL7
UniProt Related Accession #	P09769
GenBank Nucleotide #	NM_001042729.1
NCBI Official Full Name	tyrosine-protein kinase Fgr
NCBI Official Synonym Full Names	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog
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
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.** Fgr plays a biologically significant role in ovarian cancer growth and might represent an important target
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