FGR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FGR, Polyclonal Antibody
Full Product Name	FGR (Phospho-Tyr412) Polyclonal Conjugated Antibody
Product Gene Name	anti-FGR antibody
Product Synonym Names	FGR (Phospho-Tyr412) Conjugated Antibody; FGR; C-fgr protooncogene; C-src2; C-fgr; Fgr kinase; Fgr oncogene; p55-Fgr; p58-Fgr; p58c-fgr; Proto-oncogene c-Fgr; Tyrosine-protein kinase Fgr; p55c-fgr; SRC2; C-src-2 proto-oncogene; Fgr proto oncogene; p55-c-fgr protein
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	FGR (Phospho-Tyr412) antibody detects endogenous levels of FGR only when phosphorylated at Tyr412
Preparation and Storage	Store at 4 degree C for 6 months.
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	A synthesized peptide derived from human FGR (Phospho-Tyr412)
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-FGR antibody	Most Applications
Application Notes for anti-FGR antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-FGR antibody	MBS9437855 is an antibody targeting FGR. Also known as FGR (Phospho-Tyr412) Polyclonal Conjugated Antibody. Reactive in Human. Host: Rabbit.
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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