

## Rabbit anti-Human FGR Polyclonal Antibody | anti-FGR antibody

FGR Antibody

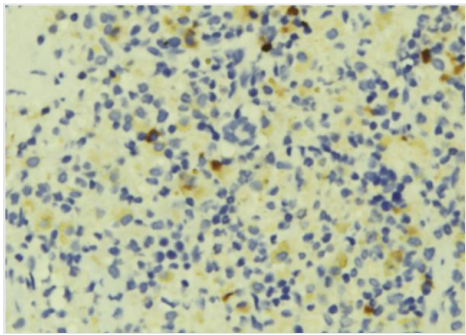
|                               |                       |                            |                                                                  |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA326565</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

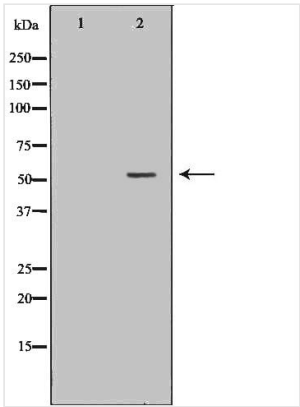
FGR; Polyclonal Antibody; FGR Antibody; c fgr; c fgr protooncogene; c src 2 proto oncogene; c src2; Fgr; FGR\_HUMAN; FLJ43153; Gardner Rasheed feline sarcoma viral (v fgr); Gardner Rasheed feline sarcoma viral (v fgr) oncogene homolog; Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog; MGC75096; p55 c fgr protein; P55 FGR; P55-FGR; p55c fgr; p58-Fgr; p58c fgr; p58c-Fgr; Proto oncogene c Fgr; Proto oncogene tyrosine protein kinase FGR; Proto-oncogene c-Fgr; SRC 2; SRC2; Tyrosine protein kinase Fgr; Tyrosine-protein kinase Fgr; anti-FGR antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                                                                                                                                             |
| Reactivity                                    | Human                                                                                                                                                                                                                                                                                                                                                              |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                       | IgG                                                                                                                                                                                                                                                                                                                                                                |
| Specificity                                   | FGR antibody detects endogenous levels of total FGR                                                                                                                                                                                                                                                                                                                |
| Purity/Purification                           | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                                                                                                                                      |
| Form/Format                                   | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                      |
| Concentration                                 | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                             |
| Sequence Length                               | 529                                                                                                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-FGR antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                               |
| Immunogen                                     | A synthetic peptide of human FGR                                                                                                                                                                                                                                                                                                                                   |
| Subcellular Location                          | Cell Membrane. Cell Membrane. Cell Projection > Ruffle Membrane. Cytoplasm > Cytosol. Cytoplasm > Cytoskeleton. Mitochondrion Inner Membrane. Mitochondrion Intermembrane Space. Detected in mitochondrial intermembrane space and at inner membranes (By similarity). Colocalizes with actin fibers at membrane ruffles. Detected at plasma membrane lipid rafts. |
| Tissue Specificity                            | Detected in neutrophils, monocytes and natural killer cells (at protein level). Detected in monocytes and large lymphocytes.                                                                                                                                                                                                                                       |
| Conjugation                                   | Unconjugated                                                                                                                                                                                                                                                                                                                                                       |
| Preparation and Storage                       | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                                  |



**IHC (Immunohistochemistry)**  
AAA326565 at 1/100 staining Human lymph tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



**WB (Western Blot)**  
Western blot analysis of extracts of HL60, using FGR antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-FGR antibody

Description: Fgr is a member of the Src tyrosine kinase family. It has a membrane-associated amino-terminal domain that is highly divergent from other family members, internal conserved SH2 and SH3 domains and a highly conserved carboxy-terminal tyrosine kinase catalytic domain (1, 2). Tyrosine 412 is located in the activation loop, and phosphorylation of this residue is critical for the activation of Fgr tyrosine kinase activity. c-Fgr is predominantly expressed in cells of hematopoietic origin including differentiated myeloid cells, NK and B cells (3, 4). Fgr plays an important role in the signaling cascade from membrane receptors lacking intrinsic tyrosine kinase activity such as Bcr, FcR, and the integrin family of receptors (5). It was demonstrated that Fgr functions as a selective inhibitor of beta2 integrin-mediated signaling and Syk kinase function in monocytes (5).

Function: 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, FCGR2A and/or FCGR2B. 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. Required for normal ITGB1 and ITGB2 signaling, normal cell spreading and adhesion in neutrophils and macrophages. Functions as positive regulator of cell migration and regulates cytoskeleton reorganization via RAC1 activation. Phosphorylates SYK (in vitro) and promotes SYK-dependent activation of AKT1 and MAP kinase signaling. 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.

Subunit Structure: Interacts with ITGB1, ITGB2, MS4A2/FCER1B, FCER1G, FCGR2A and/or FCGR2B. Interacts (via SH2 domain) with SYK (tyrosine phosphorylated). Interacts (via SH2 domain) with FLT3 (tyrosine phosphorylated). Interacts with PTK2/FAK1. Interacts (via SH2 domain) with HCLS1 (tyrosine phosphorylated by SYK). Interacts with SIRPA and PTPNS1. Interacts (not phosphorylated on tyrosine residues) with CBL; FGR tyrosine phosphorylation promotes dissociation. Interacts with PIK3R1 and FASLG (By similarity).

Post-translational Modifications: Ubiquitinated. Becomes ubiquitinated in response to ITGB2 signaling; this does not lead to degradation. Phosphorylated. Autophosphorylated on tyrosine residues. Becomes phosphorylated in response to FCGR2A and/or FCGR2B engagement, cell adhesion and signaling by ITGB2. Prior phosphorylation at Tyr-523 by SRC inhibits ulterior autophosphorylation at Tyr-412.

Similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily.

NCBI AND UNIPROT INFORMATION

|             |           |
|-------------|-----------|
| NCBI GI #   | 112382241 |
| NCBI GeneID | 2268      |

|                                  |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| NCBI Accession #                 | <a href="#">NP_001036194.1</a>                                           |
| NCBI GenBank Nucleotide #        | <a href="#">NM_001042729.1</a>                                           |
| UniProt Accession #              | <a href="#">P09769</a> ; <a href="#">Q9UIQ3</a> ; <a href="#">D3DPL7</a> |
| Molecular Weight                 | Observed: 56 kDa<br>Predicted: 60 kDa                                    |
| 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                |
| NCBI Protein Information         | tyrosine-protein kinase Fgr                                              |
| UniProt Protein Name             | Tyrosine-protein kinase Fgr                                              |
| UniProt Gene Name                | <b>FGR</b>                                                               |
| UniProt Synonym Gene Names       | SRC2                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/fgr-antibody-immunohistochemistry-western-blot-elisa/326565>