

FGR Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7707A

Specification

FGR Antibody (N-term) - Product Information

Application	IF, WB, IHC-P,E
Primary Accession	P09769
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	3-33

FGR Antibody (N-term) - Additional Information

Gene ID 2268

Other Names

Tyrosine-protein kinase Fgr,
Gardner-Rasheed feline sarcoma viral
(v-fgr) oncogene homolog, Proto-oncogene
c-Fgr, p55-Fgr, p58-Fgr, p58c-Fgr, FGR,
SRC2

Target/Specificity

This FGR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 3-33 amino acids from the N-terminal region of human FGR.

Dilution

IF~~1:10~50
WB~~1:1000
IHC-P~~1:50~100

Format

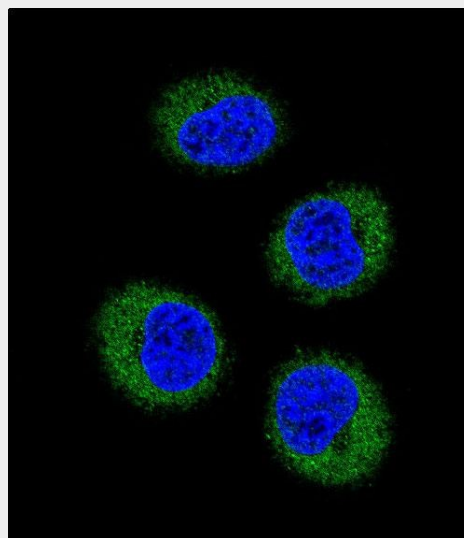
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

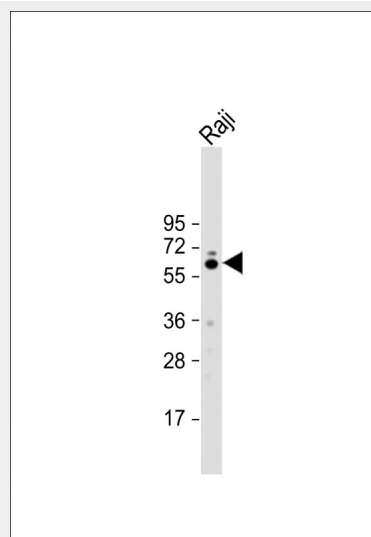
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

FGR Antibody (N-term) is for research use



Confocal immunofluorescent analysis of FGR Antibody (N-term)(Cat#AP7707a) with MDA-MB231 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



Anti-FGR Antibody (N-term) at 1:1000 dilution + Raji whole cell lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.

only and not for use in diagnostic or therapeutic procedures.

FGR Antibody (N-term) - Protein Information

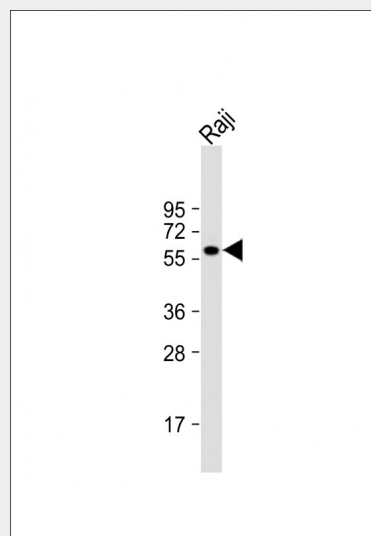
Name FGR

Synonyms SRC2

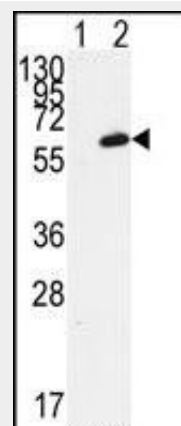
Function

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. Together with CLNK, it acts as a negative regulator of natural killer cell-activating receptors and inhibits interferon-gamma production (By similarity).

Predicted band size : 59 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-FGR Antibody (N-term) at 1:2000 dilution + Raji whole cell lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 59 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of FGR (arrow) using FGR Antibody (N-term) (Cat.#AP7707a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the FGR gene (Lane 2) (Origene Technologies).

Cellular Location

Cell membrane; Lipid-anchor; Cytoplasmic side. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, ruffle membrane. Cytoplasm, cytosol. Cytoplasm, cytoskeleton. Mitochondrion inner membrane. Mitochondrion intermembrane space. Note=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 Location

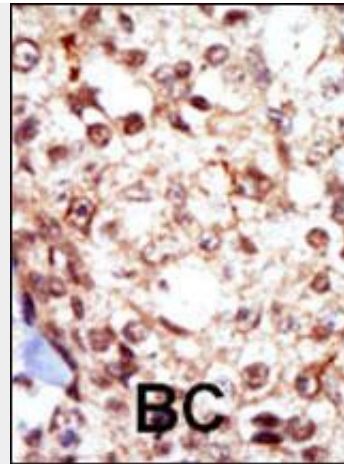
Detected in neutrophils, monocytes and natural killer cells (at protein level). Detected in monocytes and large lymphocytes.

FGR Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FGR Antibody (N-term) - Citations



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

FGR Antibody (N-term) - Background

FGR is a member of the Src family of protein tyrosine kinases (PTKs). This protein contains N-terminal sites for myristylation and palmitoylation, a PTK domain, and SH2 and SH3 domains which are involved in mediating protein-protein interactions with phosphotyrosine-containing and proline-rich motifs, respectively. It 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 protein.

FGR Antibody (N-term) - References

Carriero, M.V., et al., Biol. Chem. 383(1):107-113 (2002).
Katamine, S., et al., Mol. Cell. Biol. 8(1):259-266 (1988).
Nishizawa, M., et al., Mol. Cell. Biol. 6(2):511-517 (1986).
Cheah, M.S., et al., Nature 319(6050):238-240 (1986).
Tronick, S.R., et al., Proc. Natl. Acad. Sci. U.S.A. 82(19):6595-6599 (1985).

- [High-throughput RNAi screening identifies a role for TNK1 in growth and survival of pancreatic cancer cells.](#)
- [SRC family kinase activity is up-regulated in hormone-refractory prostate cancer.](#)