FCGR3A/FCGR3B monoclonal antibody, clone GRM1 (Biotin)

Catalog # MAB6051 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native FCGR3A/FCGR3B.
Immunogen	Native purified from human prolymphocytic leukemia cells.
Host	Mouse
Reactivity	Human
Specificity	Specificity human CD16/FcgammaRIII
Form	Liquid
Conjugation	Biotin
Isotype	IgG2a
Recommend Usage	Flow Cytometry (10 ul/10^6 cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Frozen sections)
- Flow Cytometry

Gene Info — FCGR3A

Entrez GeneID	2214
Gene Name	FCGR3A
Gene Alias	CD16, CD16A, FCG3, FCGR3, FCGRIII, FCR-10, FCRIII, FCRIIIA, IGFR3
Gene Description	Fc fragment of IgG, low affinity IIIa, receptor (CD16a)
Omim ID	146740 152700
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other other antibody-dependent responses. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	Fc fragment of IgG, low affinity III, receptor for (CD16)|Fc fragment of IgG, low affinity IIIa, receptor for (CD16)|Fc gamma receptor III-A|Fc-gamma RIII-alpha|Fc-gamma RIIIa|Fc-gamma receptor III-2 (CD 16)|Fc-gamma receptor IIIb (CD16)|FcgammaRIIIA|OTTH

Gene Info — FCGR3B

Entrez GeneID	2215
Gene Name	FCGR3B
Gene Alias	CD16, CD16b, FCG3, FCGR3
Gene Description	Fc fragment of IgG, low affinity IIIb, receptor (CD16b)
Omim ID	610665
Gene Ontology	Hyperlink
Gene Summary	low affinity IIIb
Other Designations	Fc fragment of IgG, low affinity IIIb, receptor for (CD16)|Fc-gamma receptor IIIb (CD 16)|low affinity immunoglobulin gamma Fc region receptor III-B

Publication Reference

- FcR gamma chain deletion results in pleiotrophic effector cell defects.

  Takai T, Li M, Sylvestre D, Clynes R, Ravetch JV.

  Cell 1994 Feb; 76(3):519.

- Alternative membrane forms of Fc gamma RIII(CD16) on human natural killer cells and neutrophils. Cell type-specific expression of two genes that differ in single nucleotide substitutions.

  Ravetch JV, Perussia B.

  The Journal of Experimental Medicine 1989 Aug; 170(2):481.

Pathway

- Fc gamma R-mediated phagocytosis
- Natural killer cell mediated cytotoxicity
- Natural killer cell mediated cytotoxicity
- Systemic lupus erythematosus
- Systemic lupus erythematosus

Disease

- Acute Disease
- Acute Disease
- Addison Disease
- Addison Disease
- Aggressive Periodontitis
- Aggressive Periodontitis
- Agranulocytosis
- Agranulocytosis
- Alveolar Bone Loss

- Alveolar Bone Loss
- Anemia
- Anemia
- Anti-Glomerular Basement Membrane Disease
- Anti-Glomerular Basement Membrane Disease
- Arthritis
- Arthritis
- Asthma
- Atherosclerosis
- Atherosclerosis
- Autoimmune Diseases
- Autoimmune Diseases
- Behcet Syndrome
- Behcet Syndrome
- Breast cancer
- Breast Neoplasms
- Candidiasis
- Candidiasis
- Carcinoma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Celiac Disease
- Cell Transformation
- Cerebrovascular Accident
- Cerebrovascular Accident

- Chronic Disease
- Chronic Disease
- Chronic Periodontitis
- Chronic Periodontitis
- Colorectal Neoplasms
- Coronary Artery Disease
- Coronary Artery Disease
- Crohn Disease
- Cryoglobulinemia
- Cryoglobulinemia
- Cryptococcosis
- Cryptococcosis
- Dental Plaque
- Diabetes Mellitus
- Diabetes Mellitus
- Disease Models
- Disease Progression
- Disease Progression
- Disease Susceptibility
- Disease Susceptibility
- Edema
- Edema
- Epilepsy
- Epilepsy
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease

- Glomerulonephritis
- Glomerulonephritis
- Guillain-Barre Syndrome
- Guillain-Barre Syndrome
- Head and Neck Neoplasms
- Hepatitis C
- Hepatitis C
- Herpesviridae Infections
- Immunologic Deficiency Syndromes
- Infection
- Infection
- Inflammation
- Inflammation
- Inflammatory Bowel Diseases
- Leukemia
- Leukemia
- Lichen Planus
- Lupus Erythematosus
- Lupus Erythematosus
- Lupus Nephritis
- Lupus Nephritis
- Lymphoma
- Lymphoma
- Malaria
- Malaria
- Meningococcal Infections

- Meningococcal Infections
- Mucocutaneous Lymph Node Syndrome
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Myeloma
- Multiple Sclerosis
- Multiple Sclerosis
- Myasthenia Gravis
- Myasthenia Gravis
- Myositis
- Nephritis
- Nephritis
- Neuroblastoma
- Neutropenia
- Papillomavirus Infections
- Pemphigoid
- Periodontal Attachment Loss
- Periodontal Attachment Loss
- Periodontal Diseases
- Periodontal Diseases
- Periodontal Pocket
- Periodontal Pocket
- Periodontitis
- Periodontitis
- Pneumonia
- Pneumonia

- Poliomyelitis
- Poliomyelitis
- Postpoliomyelitis Syndrome
- Postpoliomyelitis Syndrome
- Purpura
- Purpura
- Recurrence
- Recurrence
- Respiratory Tract Infections
- Respiratory Tract Infections
- Rheumatic Fever
- Rhinitis
- Sarcoma
- Scleroderma
- Seizures
- Seizures
- Sepsis
- Sepsis
- Sickle Cell Trait
- Stomach Neoplasms
- Temporal Arteritis
- Thrombocytopenia
- Thymoma
- Thymoma
- Tobacco Use Disorder
- Tobacco Use Disorder

- Tuberculosis
- Urinary Tract Infections
- Urinary Tract Infections
- Uterine Cervical Neoplasms
- Vasculitis
- Vasculitis
- Waldenstrom Macroglobulinemia
- Wegener Granulomatosis
- Wegener Granulomatosis