FCGR3B monoclonal antibody, clone MEM-154 (Biotin)

Catalog # MAB4538 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native FCGR3B.
Immunogen	Native purified FCGR3B from human granulocytes.
Host	Mouse
Reactivity	Human
Specificity	This antibody reacts with the epitope on CD16 antigen that residing in proximity to FG loop (probably BC or C'E loop). This antibody reacts with CD16+ granulocytes.
Form	Liquid
Conjugation	Biotin
Isotype	IgG1
Recommend Usage	Flow Cytometry (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze. 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

- Flow Cytometry

Gene Info — FCGR3B

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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

- IgE-mediated activation of NK cells through Fc gamma RIII.

  Arase N, Arase H, Hirano S, Yokosuka T, Sakurai D, Saito T.

  Journal of Immunology 2003 Mar; 170(6):3054.

- The binding epitopes of human CD16 (Fc gamma RIII) monoclonal antibodies. Implications for ligand binding.

  Tamm A, Schmidt RE.

  Journal of Immunology 1996 Aug; 157(4):1576.

  Application: Flow Cyt, Human, HEK 295 cells

- A triallelic Fc gamma receptor type IIIA polymorphism influences the binding of human IgG by NK cell Fc gamma RIIIa.

  de Haas M, Koene HR, Kleijer M, de Vries E, Simsek S, van Tol MJ, Roos D, von dem Borne AE.

  The Journal of Immunology 1996 Apr; 156(8):2948.

Pathway

- Natural killer cell mediated cytotoxicity
- Systemic lupus erythematosus

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Disease

- Acute Disease
- Addison Disease
- Aggressive Periodontitis
- Agranulocytosis
- Alveolar Bone Loss
- Anemia
- Anti-Glomerular Basement Membrane Disease
- Arthritis
- Atherosclerosis
- Autoimmune Diseases
- Behcet Syndrome
- Candidiasis
- Cardiovascular Diseases
- Cerebrovascular Accident
- Chronic Disease
- Chronic Periodontitis
- Coronary Artery Disease
- Cryoglobulinemia
- Cryptococcosis
- Dental Plaque
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Edema

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- Epilepsy
- Genetic Predisposition to Disease
- Glomerulonephritis
- Guillain-Barre Syndrome
- Hepatitis C
- Infection
- Inflammation
- Leukemia
- Lichen Planus
- Lupus Erythematosus
- Lupus Nephritis
- Lymphoma
- Malaria
- Meningococcal Infections
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Sclerosis
- Myasthenia Gravis
- Nephritis
- Periodontal Attachment Loss
- Periodontal Diseases
- Periodontal Pocket
- Periodontitis

- Pneumonia
- Poliomyelitis

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- Postpoliomyelitis Syndrome
- Purpura
- Recurrence
- Respiratory Tract Infections
- Rheumatic Fever
- Seizures
- Sepsis
- Sickle Cell Trait
- Thymoma
- Tobacco Use Disorder
- Urinary Tract Infections
- Vasculitis
- Wegener Granulomatosis

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