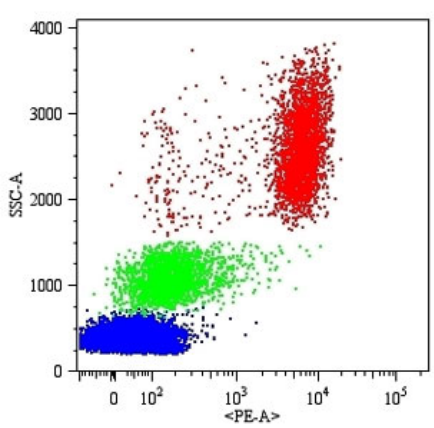
FCGR3B monoclonal antibody, clone MEM-154 (PE)

Catalog # MAB4544 Size 100 Reactions

Applications



Flow Cytometry

Surface staining of human peripheral blood cells with FCGR3B monoclonal antibody, clone MEM-154 (PE) (Cat # MAB4544).

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	PE
Isotype	IgG1
Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.

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Storage Buffer	In PBS (0.2% BSA, 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

- Flow Cytometry

  Surface staining of human peripheral blood cells with FCGR3B monoclonal antibody, clone MEM-154 (PE) (Cat # MAB4544).

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

- 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.

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- 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 293 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

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

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- Cerebrovascular Accident
- Chronic Disease
- Chronic Periodontitis
- Coronary Artery Disease
- Cryoglobulinemia
- Cryptococcosis
- Dental Plaque
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Edema
- 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

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- Multiple Myeloma
- Multiple Sclerosis
- Myasthenia Gravis
- Nephritis
- Periodontal Attachment Loss
- Periodontal Diseases
- Periodontal Pocket
- Periodontitis
- Pneumonia
- Poliomyelitis
- 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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