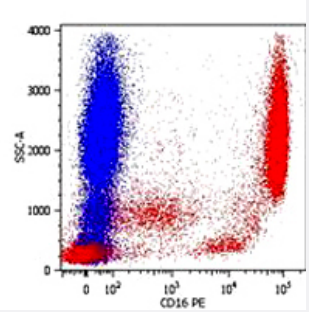
FCGR3A monoclonal antibody, clone LNK16

Catalog # MAB0959 Size 100 ug

Applications



Flow Cytometry

Surface staining of human peripheral blood cells with FCGR3A monoclonal antibody, clone LNK16 (Cat # MAB0959) PE.

Specification

Product Description	Mouse monoclonal antibody raised against native FCGR3A.
Immunogen	Native purified FCGR3A from normal human peripheral blood granulocytes.
Host	Mouse
Theoretical MW (kDa)	50-65, 48
Reactivity	Human, Primates
Specificity	This antibody reacts with CD16, a low affinity receptor for aggregated IgG (Fc gamma RIII antigen). CD16 exists in two different isoforms: CD16a (Fc gamma RIIIA; 50-65 KDa; expressed on NK-cells, monocytes and macrophages) and CD16b (Fc gamma RIIIB; 48 KDa; mainly expressed on neutrophils).
Form	Liquid
Purification	Protein-A affinity chromatography.
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.

Storage Buffer	In TBS, pH 8.0 (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

- Immunoprecipitation
- Flow Cytometry

  Surface staining of human peripheral blood cells with FCGR3A monoclonal antibody, clone LNK16 (Cat # MAB0959) PE.

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 rem oval of antigen-antibody complexes from the circulation, as well as other other antibody-dependen t 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 i s expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a p hosphatidylinositol (PI) linkage. Mutations in this gene have been linked to susceptibility to recurre nt viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutro penia. 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 f or (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

Pathway

- Fc gamma R-mediated phagocytosis
- 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
- Asthma
- Atherosclerosis
- Autoimmune Diseases
- Behcet Syndrome
- Breast cancer
- Breast Neoplasms
- Candidiasis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Cell Transformation

- Cerebrovascular Accident
- Chronic Disease
- Chronic Periodontitis
- Colorectal Neoplasms
- Coronary Artery Disease
- Crohn Disease
- Cryoglobulinemia
- Cryptococcosis
- Diabetes Mellitus
- Disease Models
- Disease Progression
- Disease Susceptibility
- Edema
- Epilepsy
- Genetic Predisposition to Disease
- Glomerulonephritis
- Guillain-Barre Syndrome
- Head and Neck Neoplasms
- Hepatitis C
- Herpesviridae Infections
- Immunologic Deficiency Syndromes
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Leukemia
- Lupus Erythematosus

- Lupus Nephritis
- Lymphoma
- Malaria
- Meningococcal Infections
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Sclerosis
- Myasthenia Gravis
- Myositis
- Nephritis
- Neuroblastoma
- Neutropenia
- Papillomavirus Infections
- Pemphigoid
- Periodontal Attachment Loss
- Periodontal Diseases
- Periodontal Pocket
- Periodontitis
- Pneumonia
- Poliomyelitis
- Postpoliomyelitis Syndrome
- Purpura
- Recurrence
- Respiratory Tract Infections
- Rhinitis
- Sarcoma

- Scleroderma
- Seizures
- Sepsis
- Stomach Neoplasms
- Temporal Arteritis
- Thrombocytopenia
- Thymoma
- Tobacco Use Disorder
- Tuberculosis
- Urinary Tract Infections
- Uterine Cervical Neoplasms
- Vasculitis
- Waldenstrom Macroglobulinemia
- Wegener Granulomatosis