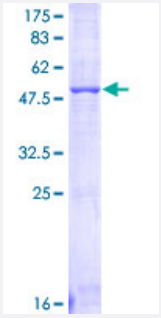
Full-Length

FCGR3A (Human) Recombinant Protein (P01)

Catalog # H00002214-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human FCGR3A full-length ORF (AAH17865.1, 17 a.a. - 254 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GMRTEDLPKAVVFLEPQWYRVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASSYFIDAAT VDDSGEYRCQTNLSTLSDPVQLEVHIGWLLLQAPRWVFKEEDPIHLRCHSWKNTALHKVTYLQN GKGRKYFHHNSDFYIPKATLKDSGSYFCRGLVGSKNVSSETVNITITQGLAVSTISSFFPPGYQVSF CLVMVLLFAVDTGLYFSVKTNIRSSTRDWKDHKFKWRKDPQDK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	51.92
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

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Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — FCGR3A

Entrez GeneID	2214
GeneBank Accession#	BC017865
Protein Accession#	AAH17865.1
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

Publication Reference

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- Discovery and characterization of a peptide motif that specifically recognizes a non-native conformation of human IGG induced by acidic ph conditions.

  Sakamoto K, Ito Y, Hatanaka T, Soni PB, Mori T, Sugimura K.

  The Journal of Biological Chemistry 2009 Apr; 284(15):9986.

  Application: Func, Receptor

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

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- 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

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- 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

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- 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

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