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Product Information

MemDX™ Antibody Discovery - Human Fc gamma RIIIA/CD16a (17-208) (F176) Membrane Protein, Partial, -Avi -His tag, [Biotin]

Cat. No.: **MP1426F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human Fc gamma RIIIA/CD16a (17-208) (F176). It has been tested in SDS-PAGE, SPR, BLI. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Human

Target Protein
Fc gamma RIIIA/CD16a

Protein Length
ECD

Molecular Weight
The protein has a calculated MW of 25.5 kDa. The protein migrates as 40-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Sequence
AA Gly 17 - Gln 208 (Accession # P08637-1).

Product Description

Activity
Yes

Application
SDS-PAGE, SPR, BLI

Expression Systems
HEK293

Tag
Avi tag at the C-terminus, followed by a His tag.

Protein Format
Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>95% as determined by SDS-PAGE

Buffer

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.
The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile coditions after reconstitution after storage at -80°C.

Target

Target Protein

Fc gamma RIIIA/CD16a

Full Name

Fc fragment of IgG receptor IIIa

Introduction

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.

Alternative Names

CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; FCGRIII; FCRIIIA; low affinity immunoglobulin gamma Fc region receptor III-A; CD16a antigen; Fc fragment of IgG, low affinity III, receptor for (CD16); Fc fragment of IgG, low affinity IIIa, receptor (CD16a); Fc gamma receptor III-A; Fc-gamma RIII-alpha; Fc-gamma receptor III-2 (CD 16); Fc-gamma receptor IIIb (CD16); FcgammaRIIIA; igG Fc receptor III-2; immunoglobulin G Fc receptor III; low affinity immunoglobulin gamma receptor III-a Fc fragment; neutrophil-specific antigen NA

Gene ID

2214

UniProt ID

P08637