

## Product Information

### **MemDX™ Antibody Discovery - Mouse Fc gamma RIII/CD16 (32-215) Membrane Protein, Partial, -His tag**

Cat. No.: **MP1420F**

This product is for research use only and is not intended for diagnostic use.

This membrane protein is Mouse Fc gamma RIII/CD16 (32-215). 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**

Mouse

##### **Target Protein**

Fc gamma RIII/CD16

##### **Protein Length**

ECD

##### **Molecular Weight**

The protein has a calculated MW of 23.0 kDa. The protein migrates as 36-45 kDa under reducing (R) condition (SDS-PAGE).

##### **Sequence**

AA Leu 32 - Thr 215 (Accession # Q5D5I8).

#### Product Description

##### **Activity**

Yes

##### **Application**

SDS-PAGE, SPR, BLI

##### **Expression Systems**

HEK293

##### **Tag**

His Tag at the C-terminus

##### **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 conditions after reconstitution after storage at -80°C.

## Target

### Target Protein

Fc gamma RIII/CD16

### Full Name

Fc receptor, IgG, low affinity III

### Introduction

Fc gamma RIII/CD16 is a low/intermediate affinity activating receptor for polyvalent immune-complexed IgG. It is involved in phagocytosis, secretion of enzymes and inflammatory mediators, antibody-dependent cytotoxicity, and clearance of immune complexes. It is expressed on NK cells, T cells, monocytes, and macrophages. Mouse Fc gamma RIII/CD16 is encoded by a single gene and is expressed as a type I transmembrane protein on a variety of myeloid and lymphoid cells. It associates with Fc R gamma to deliver an activating signal upon ligand binding.

### 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 (CD16), 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

[14131](#)

### UniProt ID

[A0A0B4J1M6](#)