

# Product Information

## MemDX™ Antibody Discovery - Rhesus macaque Fc gamma RIII/CD16 (21-206) Membrane

### Protein, Partial, -His tag

Cat. No.: **MP1423F**

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

This membrane protein is Rhesus macaque Fc gamma RIII/CD16 (21-206). 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

Rhesus macaque

#### Target Protein

Fc gamma RIII/CD16

#### Protein Length

ECD

#### Molecular Weight

The protein has a calculated MW of 23.1 kDa. The protein migrates as 35-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

#### Sequence

AA Glu 21 - Gly 206 (Accession # A3RFZ7-1).

Predicted N-terminus: Glu 21

### 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**

>90% 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-gamma RIII

**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; FCGR3A; FcRIII; low affinity immunoglobulin gamma Fc region receptor III; Fc gamma RIIIa; Fc gamma receptor 3A; IgG Fc receptor III

**Gene ID**

[720006](#)

**UniProt ID**

[A3RFZ7](#)