# CD16 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CD16, Polyclonal Antibody |
| **Full Product Name** | CD16 Polyclonal Antibody Cy3 Conjugated |
| **Product Gene Name** | anti-CD16 antibody |
| **Product Synonym Names** | CD16; FCG3; CD16A; FCGR3; IGFR3; IMD2; FCR-1; FCRIII; FCGRIII; FCRIIIA; Low affinity immunoglobulin gamma Fc region receptor III-A; CD16a antigen; Fc-gamma RIII-alpha; Fc-gamma RIII; Fc-gamma RIIIa; IgG Fc receptor III-2; FCGR3A; CD16a, CD16b |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Aqueous buffered solution containing 1% BSA, 50% glycerol and 0.09% sodium azide. |
| **Purity/Purification** | Purified by Protein A |
| **Concentration** | 1mgml (lot specific) |
| **Preparation and Storage** | Store at 4 degree C for 12 months. |
| **Molecular Weight** | 254 |
| **OMIM** | gene 615707 |
| **3D Structure** | ModBase 3D Structure for P08637 |
| **Conjugation** | Cy3 |
| **Excitation Emission** | 512,550nm 570,615nm |
| **Immunogen** | KLH conjugated synthetic peptide aa 145-195 254 derived from human CD16a |
| **Product Categories/Family for anti-CD16 antibody** | Conjugated Primary Antibodies |
| **Applications Tested/Suitable for anti-CD16 antibody** | Immunofluorescence (IF), Flow Cytometry (FC/FACS) |
| **Application Notes for anti-CD16 antibody** | FC/FACS:1:20-10<br>IF: 1:50-200 |
| **Related Product Information for anti-CD16 antibody** | Receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG. Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis. |
| **Other Notes** | Small volumes of anti-CD16 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CD16 purchase** | MBS9461656 is an antibody targeting CD16. Also known as CD16 Polyclonal Antibody Cy3 Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD16. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 119876 |
| **NCBI GeneID** | 2214 |
| **NCBI Accession #** | P08637.2 |
| **UniProt Primary Accession #** | P08637 |
| **UniProt Secondary Accession #** | Q53FJ0; Q53FL6; Q5EBR4; Q65ZM6; Q6PIJ0; A2N6W9 |
| **UniProt Related Accession #** | P08637 |
| **NCBI Official Full Name** | Low affinity immunoglobulin gamma Fc region receptor III-A |
| **NCBI Official Synonym Full Names** | Fc fragment of IgG, low affinity IIIa, receptor (CD16a) |
| **NCBI Official Symbol** | FCGR3A |
| **NCBI Official Synonym Symbols** | CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; FCGRIII; FCRIIIA |
| **UniProt Protein Name** | Low affinity immunoglobulin gamma Fc region receptor III-A |
| **UniProt Synonym Protein Names** | CD16a antigen; Fc-gamma RIII-alpha; Fc-gamma RIII; Fc-gamma RIIIa; FcRIII; FcRIIIa; FcR-10; IgG Fc receptor III-2; CD_antigen: CD16a |
| **Protein Family** | CD160 antigen |
| **UniProt Gene Name** | FCGR3A |
| **UniProt Synonym Gene Names** | CD16A; FCG3; FCGR3; IGFR3; Fc-gamma RIII; Fc-gamma RIIIa; FcRIII; FcRIIIa |
| **UniProt Entry Name** | FCG3A_HUMAN |
| **NCBI Protein Information** | low affinity immunoglobulin gamma Fc region receptor III-A; FcgammaRIIIA; CD16a antigen; fc-gamma RIII; Fc-gamma RIIIa; Fc-gamma RIII-alpha; igG Fc receptor III-2; Fc gamma receptor III-A; Fc-gamma receptor IIIb (CD16); neutrophil-specific antigen NA; Fc- |
| **NCBI Summary for CD16** | 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. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for CD16** | FCGR3A: Receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG. Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis.<br><br>Protein type: Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 1q23<br><br>Cellular Component: integral to membrane; plasma membrane; external side of plasma membrane<br><br>Molecular Function: IgG binding<br><br>Biological Process: regulation of immune response; innate immune response; immune response<br><br>Disease: Immunodeficiency 20 |
| **Research Articles on CD16** | **1.** These results suggest that carrying a FCRG3A F allele does not negatively affect rituximab therapy in immunosuppressed patients. |

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