



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
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Certificate of Analysis and Data Sheet

Mouse Anti-CD16

Catalog No.
MD-14-0766

Host Animal
Mouse

Isotype
IgG₁

Description

MAb to CD16
Monoclonal Antibody to Human CD16

Specificity:

Reacts with the epitope on human CD16 antigen that resides in proximity to FG loop (probably BC or C'E loop). CD16 is a low affinity receptor for aggregated IgG (Fc gamma RIII antigen). Recognizes a polymorphism of CD16a (NK-cells form), it reacts well with the granulocyte form (CD16b) of all subjects. Does not react with CD16a present on NK cells in many subjects. Blocks binding of human IgG to Fc gamma RIII.

Source:

Culture

Immunogen:

Human granulocytes

Format:

Purified, Liquid

Purification:

>95% pure (SDS-PAGE). Protein A chromatography

Concentration:

1mg/ml

Affinity Constant:

Not determined

Buffer:

Tris buffered saline (TBS), pH 8.0

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preservative:

15mM Sodium azide

Applications:

Suitable for use in Flow cytometry (5-10ug/ml), immunoprecipitation and Western blot (non-reducing). Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Storage: Short term store at 2-8°C. Long term, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

Reference:

1. Gessner, J.E., et al., (1995), "The human low affinity immunoglobulin G Fc receptor III-A and III-B genes. Molecular characterization of the promoter regions", J. Biol. Chem., 270(3): 1350-1361
2. Kocher, M., et al., (1997), "Cross-linking of Fc gamma receptor IIa and Fc gamma receptor IIIb induces different proadhesive phenotypes on human neutrophils", J. Immunol., 159(8): 3940-3948
3. Arase, N., et al., (2003), "IgE-mediated activation of NK cells through Fc gamma RIII", J. Immunol., 170(6): 3054-3058
4. Leukocyte Typing V., Schlossman, S., et al., (Eds.), Oxford University Press (1995)
5. de Haas, M., et al., (1996), "A triallelic Fc gamma receptor type IIIA polymorphism influences the binding of human IgG by NK cell Fc gamma RIIIa", J. Immunol., 156(8): 3948-3955
6. Tamm, A., et al., (1996), "The binding epitopes of human CD16 (Fc gamma RIII) monoclonal antibodies. Implications for ligand binding", J. Immunol., 157(4): 1576-1581

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