

Bulk Anti-Human CD16 (3G8) Antibody

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Product Benefits:

ichorbio's anti-human CD16 antibody (3G8) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from [Bio X Cell](#) at less than 1.0 EU/mg. If ichorbio's low endotoxin antibodies are not low enough we also offer ultra low endotoxin antibodies which have even less endotoxin (0.5EU/mg) at an even higher purity (98% versus 95%). ichorbio: the best antibodies for *in vivo* research.

Target:

CD16

Clone:

3G8

Isotype:

Mouse IgG1

Other Names:

FCGR3A, Fc-gamma RIII, FcRIII

Uniprot:

[P08637](#)

Host:

Mouse

Species Reactivity:

Human

Specificity:

Bulk anti-human CD16 antibody (3G8) recognizes an epitope on Human CD16

Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:

CD16 is expressed on the surface of NK cells, activated monocytes, macrophages, and placental trophoblasts in humans.

Background:

CD16 is known as low affinity IgG receptor III (Fc gamma RIII) and is expressed as two distinct forms (CD16a and CD16b). CD16a (Fc gamma RIIIA) is a 50-65 kD polypeptide-anchored transmembrane protein. CD16b (Fc gamma RIIB) is a 48 kD glycosylphosphatidylinositol (GPI)-anchored protein. Its extracellular domain is over 95% homologous to that of CD16a, and it is expressed specifically on neutrophils.

Immunogen:

Human PMN cells

Concentration:

? 2.0 mg/ml

Formulation:

0.01 M phosphate buffered saline (PBS) pH 7.2, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and Azide free.

Purity:

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

Endotoxin:

? 1.0 EU/mg as determined by the LAL method

? 0.75 EU/mg as determined by the LAL method

Aggregation:

Aggregation level ? 5%

Aggregation level ? 1%

Storage:

This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at – 20°C or -80°C. Avoid repeated freeze thaw cycles.

Applications:

IHC (Frozen), Flow Cytometry, Immunoprecipitation, Blocking, Flow Cytometry, CyTOF

Application Notes:

Flow Cytometry: For flow cytometric staining, the suggested use of this reagent is 2.0 µg per million cells in 100 µl volume. Blocking: Clone 3G8 antibody blocks neutrophil phagocytosis and stimulates NK cell proliferation. Each investigator should determine their own optimal working dilution for specific applications.

Use:

Products are for research use only.

Isotype Control:

[Mouse IgG1 Isotype Control for In Vivo - Low Endotoxin \[HKSP\] \(ICH2247\)](#)

Antibodies against the same target:

[Anti-CD32/CD16 In Vivo Antibody - Low Endotoxin \[2.4G2\] \(ICH1056\)](#)

Alternative Names:

- Low affinity sodium glucose cotransporter antibody
- Low affinity sodium-glucose cotransporter antibody
- Na(+) glucose cotransporter 2 antibody
- Na(+)/glucose cotransporter 2 antibody
- OTTHUMP00000163298 antibody
- SC5A2_HUMAN antibody
- SGLT 2 antibody
- SLC5A 2 antibody
- SLC5A2 antibody
- Sodium glucose cotransporter 2 antibody
- Sodium/glucose cotransporter 2 antibody
- Solute carrier family 5 (sodium glucose cotransporter) member 2 antibody
- Solute carrier family 5 (sodium/glucose transporter), member 2 antibody
- Solute carrier family 5 member 2 antibody