



Mouse anti CD16 Monoclonal Antibody

Alternative Name(s): CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; FCGRIII; FCRIIIA; FcGRIIIA

Order Information

- **Description:** CD16
- **Catalogue:** 605-230
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 3G8
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein of human CD16

BACKGROUND

CD16 is known as a receptor for the immunoglobulin G Fc gamma receptor IIIa (FCGR3A). It is expressed as two distinct forms (CD16a and CD16b). CD16a (FcγRIIIA) is a 50-65 kD polypeptide-anchored transmembrane protein. It is expressed on the surface of NK cells, activated monocytes, macrophages, and placental trophoblasts in humans. CD16b (FcγRIIIB) is a 48 kD glycosylphosphatidylinositol (GPI)-anchored protein. CD16 is involved in the removal of antigen-antibody complexes from the circulation, as well as other responses, including antibody dependent cellular mediated cytotoxicity and antibody dependent enhancement of virus infections.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human CD16 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: 0.5-5 µg/106 cells
- Molecular Weight: 50-60
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

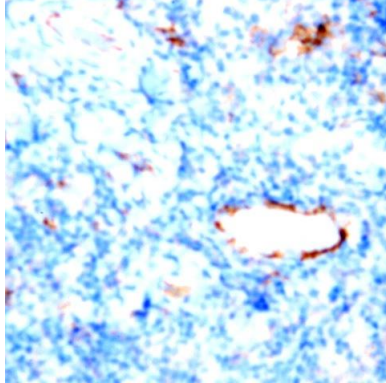
*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil (FFPE) stained with Mouse anti-CD16 (Cat# 605-230) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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