Mouse anti CD64 Monoclonal Antibody

Alternative Name(s): nan

Order Information

- **Description:** CD64
- **Catalogue:** 605-440
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 10.1
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein of human CD64

BACKGROUND

CD64 is a 72 kD single chain type I glycoprotein. CD64 is a membrane receptor for the Fc region of immunoglobulin G. It is functionally unique as it is the only FcγR able to bind monomeric IgG with high affinity. FcγRI is also structurally distinct, containing an extracellular Ig-interactive region of three Ig-like in contrast to the two domains of the low affinity receptors FcγRII and FcγRIII. CD64 is found on macrophages, monocytes, and dendritic cells. It was shown that in a large Crohn's disease cohort neutrophil CD64 index and soluble CD64 were significantly elevated during active gastrointestinal inflammation. Erythema Nodosum Leprosum neutrophils express CD64, presumably contributing to the immunopathogenesis of the disease

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 CD64 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: 72.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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

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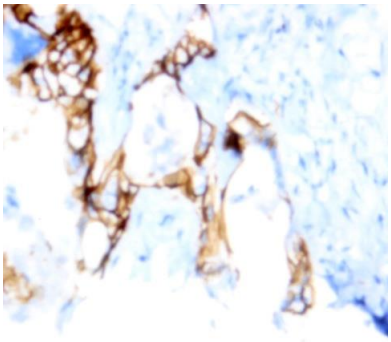
DATA ATTACHMENTS



Immunohistochemistry: Human breast carcinoma (FFPE) stained with Mouse anti-CD64 (Cat# 605-440) 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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