

11-644-C025

Monoclonal Antibody to CD64 Purified Antibody (0.025 mg)

Clone: 10.1

Isotype: Mouse IgG1

Specificity: The mouse monoclonal antibody 10.1 recognizes alpha subunit of

CD64/FcgammaRI, a 72 kDa single chain type I glycoprotein, that is expressed on

monocytes/macrophages, dendritic cells, and activated granulocytes.

HLDA III; WS Code M-250

Regulatory Status: RUO

Immunogen: Rheumatoid synovial fluid cells and fibronectin purified human monocytes

Species Reactivity: Human, Non-Human Primates

Application: Flow Cytometry

Recommended dilution:5 µg/ml

Immunoprecipitation Western Blotting

Immunohistochemistry (paraffin sections)

Application note: There can occur problems with paraformal dehyde fixation

Immunohistochemistry (frozen sections)

Application note: There can occur problems with paraformal dehyde fixation

Immunocytochemistry Functional Application

blocking of IgG binding to the FcgammaR1

Purity: > 95% (by SDS-PAGE)

Purification: Purified by protein-A affinity chromatography

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial

label.

Expiration: See vial label

Lot Number: See vial label

Background: CD64 (FcgammaRI) is a cell surface receptor for Fc region of IgG. It is composed

of specific ligand binding alpha subunit and promiscuous gamma subunit, which is indispensable for tyrosine-based signaling. However, even the alpha subunit can transduce signals leading to cellular effector functions. The isoform FcgammaRla1 binds human IgG with high affinity, has limited myeloid cell distribution, and a relatively large intracellular domain. Products of related genes include FcgammaRlb and FcgammaRlc isoforms, but these specify low affinity IgG receptors if functionally expressed at all. Besides a role in antigen clearance, FcgammaRl (a1) can potently enhance MHC class I and II antigen presentation in

vitro and in vivo.

For laboratory research only, not for drug, diagnostic or other use.



PRODUCT DATA SHEET

References:

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*And many other.

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