



A7-644-T025

Monoclonal Antibody to CD64 Alexa Fluor® 700 conjugated (25 tests)

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

Preparation: The purified antibody is conjugated with Alexa Fluor® 700 under optimum

conditions. The conjugate is purified by size-exclusion chromatography and

adjusted for direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using 4

μl reagent / 100 μl of whole blood or 10° cells in a suspension.

The content of a vial (0.1 ml) is sufficient for 25 tests.

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.



PRODUCT DATA SHEET

References:

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*And many other.

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