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Purified Mouse Monoclonal Antibody to CD64

CLX443AP

Lot:

Size: 0.1 mg

Clone: 10.1

Isotype: Mouse IgG1

Specificity: The mouse monoclonal antibody 10.1 recognizes alpha subunit of CD64/FcγRI, 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

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 paraformaldehyde fixation
Immunohistochemistry (frozen sections)
Application note: There can occur problems with paraformaldehyde fixation

Continued...

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Application (Continued)

Immunocytochemistry

Functional Application

Blocking of IgG binding to the FcγRI

- Purity:** > 95% (by SDS-PAGE)
- Purification:** Purified from cell culture supernatant 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 use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles
- Background:** CD64 (FcγRI) 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 FcγRIa1 binds human IgG with high affinity, has limited myeloid cell distribution, and a relatively large intracellular domain. Products of related genes include FcγRIb and FcγRIc isoforms, but these specify low affinity IgG receptors if functionally expressed at all. Besides a role in antigen clearance, FcγRI (a1) can potently enhance MHC class I and II antigen presentation in vitro and in vivo.
- References:**
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*Jayaram Y, Buckle AM, Hogg N: The Fc receptor, FcRI, and other activation molecules on human mononuclear phagocytes after treatment with interferon-gamma. *Clin Exp Immunol*. 1989 Mar;75(3):414-20.

*And many other.

Laboratory Reagent For Research Use Only