

30-1452: Anti-CD64 / FcgammaRI Monoclonal Antibody (Clone:10.1)

Clonality :	Monoclonal
Clone Name :	10.1
Application :	FACS, IP, WB, IHC, IHC-Fr, ICC, Functional Assay
Reactivity :	Human, Non-Human Primates
Gene :	FCGR1A
Gene ID :	2209
Uniprot ID :	P12314
Format :	Purified
Alternative Name :	FCGR1A,FCG1,FCGR1,IGFR1
Isotype :	Mouse IgG1
Immunogen Information :	Rheumatoid synovial fluid cells and fibronectin purified human monocytes

Description

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 FcgammaRIa1 binds human IgG with high affinity, has limited myeloid cell distribution, and a relatively large intracellular domain. Products of related genes include FcgammaRIb and FcgammaRIc isoforms, but these specify low affinity IgG receptors if functionally expressed at all. Besides a role in antigen clearance, FcgammaRI (a1) can potentially enhance MHC class I and II antigen presentation in vitro and in vivo.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow Cytometry *Recommended dilution:* 5 µg/ml

Immunoprecipitation Western Blotting Immunohistochemistry *Application note:* There can occur problems with paraformaldehyde fixation **Immunohistochemistry (frozen sections)** *Application note:* There can occur problems with paraformaldehyde fixation **Immunocytochemistry Functional Application** blocking of IgG binding to the FcgammaR1