CD64 / Fc gamma RI Antibody

Mouse Monoclonal Antibody [Clone FCGR1A/7497]

Catalog No	Format	Size
2209-MSM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2209-MSM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2209-MSM4-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

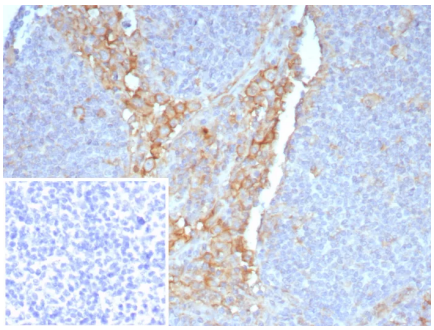
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

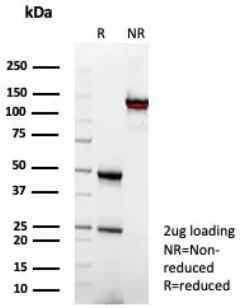
Clone	FCGR1A/7497
Gene Name	FCGR1A
Immunogen	Recombinant fragment (around aa1-200) of human CD64 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2 / Kappa
Mol. Weight of Antigen	43kDa
Cellular Localization	Cell membrane
Species Reactivity	Human
Positive Control	Human tonsil or lymph node.

**Optimal dilution for a specific application should be determined.*

Product Images for CD64 / Fc gamma RI Antibody



IHC analysis of formalin-fixed, paraffin-embedded human tonsil. Membrane stained using FCGR1A/7497 at 2ug/ml in PBS for 30min RT. Inset: PBS instead of primary antibody, secondary only negative control.



SDS-PAGE Analysis of Purified CD64 Mouse Monoclonal Antibody (FCGR1A/7497). Confirmation of Integrity and Purity of Antibody.

Specificity & Comments

Three different classes of IgG Fc receptors have been described: Fc ? RI (CD64), Fc ? RII (CD32) and Fc ? RIII (CD16). The low affinity receptors, CD64 and CD16, have a putative role in mediating humoral immune responses. CD64 is a surface glycoprotein with high affinity for monomeric IgG, is expressed constitutively on monocytes and macrophages, and can be induced in neutrophils subsequent to IFN-? stimulation. CD64 plays a putative role in the initiation of cell-mediated cytotoxicity. Thus far, three genes encoding four distinct CD64 transcripts have been described. CD64 has been shown to associate with signal transducing subunit of the high affinity IgE receptor. Src family kinases Hck and Lyn show increased kinase activity and will coimmunoprecipitate with CD64 subsequent to receptor cross linking.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C.Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Immunology, Cytokine Signaling, Infectious Disease

Limitations and Warranty