

## CD64 / Fc gamma RI Antibody

Mouse Monoclonal Antibody [Clone FCGR1A/7499]

Catalog No	Format	Size
2209-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2209-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2209-MSM6-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

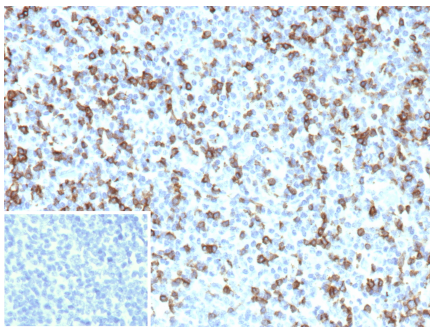
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

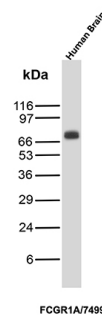
<b>Clone</b>	FCGR1A/7499
<b>Gene Name</b>	FCGR1A
<b>Immunogen</b>	Recombinant fragment (around aa1-200) of human FCGR1A protein (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2a / Kappa
<b>Mol. Weight of Antigen</b>	43kDa
<b>Cellular Localization</b>	Cell membrane
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human tonsil or lymph node. Brain.

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

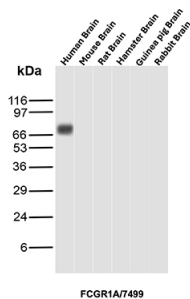
### Product Images for CD64 / Fc gamma RI Antibody



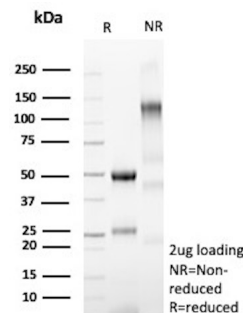
Formalin-fixed, paraffin-embedded human tonsil stained with CD64 Mouse Monoclonal Antibody (FCGR1A/7499). Inset: PBS instead of primary antibody; secondary only negative control.



Western Blot Analysis of Human Brain tissue lysate using FCGR1A Mouse Monoclonal Antibody (FCGR1A/7499).



Western Blot Analysis of Brain tissue lysates of different species using FCGR1A Mouse Monoclonal Antibody (FCGR1A/7499).



SDS-PAGE Analysis of Purified CD64 Mouse Monoclonal Antibody (FCGR1A/7499). Confirmation of Purity and Integrity of Antibody.

### Specificity & Comments

Three different classes of IgG Fc receptors have been described: Fc  $\gamma$  RI (CD64), Fc  $\gamma$  RII (CD32) and Fc  $\gamma$  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- $\gamma$  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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### 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

Cytokine Signaling, Immunology, Infectious Disease