Rat anti-Mouse CD64 Monoclonal Antibody | anti-CD64 antibody

RAT ANTI MOUSE CD64

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50249	**Rat**	**Mouse**	**Flow Cytometry, Functional Assay, Immunohistochemistry**

PRODUCT SYNONYMS

CD64; Monoclonal Antibody; RAT ANTI MOUSE CD64; FcRI; Fcg1; anti-CD64 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	AT152-9
Specificity	CD64
Form/Format	Purified IgG-liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	404
Applicable Applications for anti-CD64 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Preparation	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Buffer Solution	TRIS buffered saline
Target Species	Mouse
Immunogen	HEK293F cells expressing CD64 and gamma chain
Fusion Partners	Spleen cells from immunised rats were fused with cells of the NS-1 myeloma cell line
Preparation and Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: Up to 12 months from date of despatch

ADDITIONAL INFORMATION

Related Product Information for anti-CD64 antibody	Rat anti mouse CD64 antibody, clone AT152-9, recognizes mouse CD64 also known as FcRI. CD64 is a high affinity activatory receptor for IgG2a and a low affinity receptor for IgG2b and IgG3 type antibodies. The interaction between Fc receptors and antibodies play important roles in both the innate and adaptive immune responses. CD64, through binding of the Fc segment of IgG, mediates phagocytosis and plays a role in antibody-dependent cellular cytotoxicity and clearance of immune complexes. In addition, CD64 also functions as an antigen capture for presentation to T-cells and also mediates the release of cytokines and reactive oxygen intermediates including interleukin (IL)-1, IL-6 and tumor necrosis factor (TNF) alpha. It is constitutively expressed on monocytes and macrophages, germinal centre dendritic cells and early myeloid lineage cells, but not lymphocytes. Expression on monocytes can be strongly upregulated by treatment with interferon (IFN) gamma or G-CSF, and can be induced on neutrophils and eosinophils by IFN gamma.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119873
NCBI GeneID	14129
UniProt Accession #	P26151
NCBI Official Full Name	High affinity immunoglobulin gamma Fc receptor I
NCBI Official Synonym Full Names	Fc receptor, IgG, high affinity I
NCBI Official Symbol	Fcgr1
NCBI Official Synonym Symbols	CD64; IGGHAFC; AI323638; AV092959; FcgammaRI
NCBI Protein Information	high affinity immunoglobulin gamma Fc receptor I
UniProt Protein Name	High affinity immunoglobulin gamma Fc receptor I
UniProt Gene Name	**Fcgr1**
UniProt Synonym Gene Names	Fcg1; IgG Fc receptor I; FcRI
UniProt Entry Name	FCGR1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/monoclonal/cd64-antibody-clone-at152-9-flow-cytometry-immunohistochemistry-elisa/50249