

Product datasheet for **TA420169**

Fcgr1 Rat Monoclonal Antibody [Clone ID: AT152-9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT152-9
Applications:	FC, IHC
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	HEK293F cells expressing CD64 and gamma chain
Specificity:	CD64
Formulation:	TRIS buffered saline containing <0.1% Sodium Azide (NaN ₃) Label: FITC,Purified State: Purified IgG prepared by ion exchange chromatography from tissue culture supernatant Purified IgG - liquid
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	+4°C, -20°C if preferred
Stability:	Shelf life: one year from despatch.
Gene Name:	Fc receptor, IgG, high affinity I
Database Link:	P26151



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Background:

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.

Synonyms:

FcRI