

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 (NaN3)

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

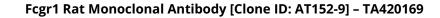
Database Link: P26151



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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