

PE Anti-Mouse CD16.2 Antibody[9E9]

Catalog Number: AN01258D

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity	Mouse
Host	Armenian Hamster
Isotype	Armenian Hamster IgG
Clone No.	9E9
Isotype Control	PE Armenian Hamster IgG Isotype Control[PIP] [Product E-AB-F09852D]
Conjugation	PE
Conjugation Information	PE is designed to be excited by the Blue (488 nm), Green (532 nm) and Yellow-Green (561 nm) lasers and detected using an optical filter centered near 575 nm (e.g., a 585/42 nm bandpass filter).
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

Applications

Recommended usage

FCM	Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5 µL of antibody per test (million cells in 100 µL staining volume or per 100 µL of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
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Preparation & Storage

Storage	Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze.
Shipping	Ice bag

Antigen Information

Alternate Names	FcγRIV;Fcγr4;Fcrl3;CD16-2;FcγRIV;Fcγr3a;FcγgammaRIV;4833442P21Rik;Fc gamma RIV
Uniprot ID	A0A0B4J1G0
Gene ID	246256
Background	The 9E9 monoclonal antibody reacts with mouse CD16.2, also known as FcγRIV (Fc receptor, IgG, low affinity IV). CD16.2 is a member of the immunoglobulin superfamily and is expressed on monocytes, macrophages, dendritic cells, and neutrophils. Fcγ receptors are essential for IgG-dependent effector functions in vivo. CD16.2 requires the common Fcγ chain for expression and signaling. CD16.2 binds to IgG2a and IgG2b with intermediate affinity. IgG2a- and IgG2b-dependent effector functions are severely impaired in CD16.2 deficient mice. CD16.2 has also been reported to be a low-affinity IgE receptor for all IgE allotypes and promotes IgE-induced lung inflammation. The 9E9 antibody has been shown to inhibit cellular CD16.2 function.

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