SONY

Product Data Sheet

APC/Cyanine7 anti-mouse CD16

Catalog # / Size: 1390070 / 100 µg
1390065 / 25 µg

Clone: S17014E

Isotype: Rat IgG2a, κ

Immunogen: Mouse CD16 - transfected cells

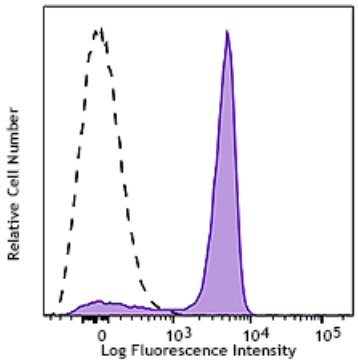
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Workshop Number: V-CD28.05

Concentration: 0.2



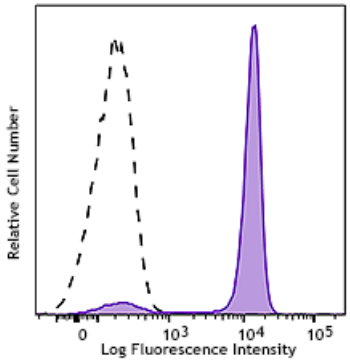
C57BL/6 mouse bone marrow cells were stained with CD16 APC/Cyanine7 (clone S17014E) (filled histogram) or rat IgG2a, κ APC/Cyanine7 isotype control (open histogram). Data shown was gated on the myeloid cell population.

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Clone S17016D cross-blocks anti-mouse NK1.1 clone PK136, and can stain for NK1.1 post-formaldehyde and methanol-based fixation based on in-house testing.



C57BL/6 mouse bone marrow cells were stained with CD16 PE/Dazzle™ 594 (clone S17014E) (filled histogram) or rat IgG2a, κ PE/Dazzle™ 594 (open histogram). Data shown were gated on the myeloid cell population.

Application References:

1. Verjan Garcia N, *et al.* 2011. *J. Immunol.* 187:2268. (WB, IF)

Description: CD16 also know as Fcgr3 is a 50-65 kD type I transmembrane protein, member of the Fc gamma receptor family and Ig superfamily. CD16 is expressed on most myeloid cells including monocytes, macrophages, dendritic cells, and is also expressed by NK cells and NKT cells. CD16 is involved in cell activation, phagocytosis, and antibody-dependent cell-mediated cytotoxicity (ADCC); its ligands are IgG1, IgG2a and IgG2b.

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Antigen References:

1. Nimmerjahn F1 & Ravetch JV. 2008. *Nat Rev Immunol*. 8(1):34-47.
2. Biburger M & Nimmerjahn F. 2012. *Immunol Lett*. 143(1):53-9.
3. Arase N, *et al*. 2003. *J Immunol*. 170:3054.

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