

PE anti-mouse CD163

Catalog # / Size: 1376540 / 100 µg
1376535 / 25 µg

Clone: S15049I

Isotype: Rat IgG2a, κ

Immunogen: Recombinant mouse CD163 extracellular domain

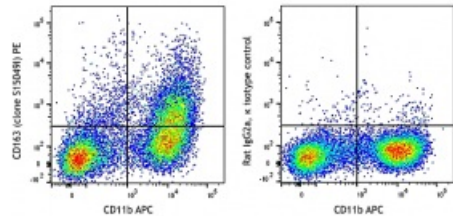
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

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

Workshop Number: VII 70312

Concentration: 0.2 mg/ml



C57BL/6 bone marrow were stained with CD11b APC and CD163 (clone S15049I) PE (left) or rat IgG2a, κ PE isotype control (right). Data shown was gated on total bone marrow cells.

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 ≤ 0.25 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 SK1 recognizes the a chain of CD8. Additional reported applications (for the relevant formats) include: proteogenomics⁸, immunohistochemistry of acetone-fixed frozen tissue sections. This clone was tested in-house and does not demonstrate utility for formalin-fixed paraffin-embedded (FFPE) human tonsil sections.

Application References: 1. Kurosawa S, et al. 2003. *Am. J. Respir. Cell Mol. Biol.* 28:563.

Description: CD163 is a member of the group B scavenger receptor cysteine-rich superfamily, also known as GHI/61, M130, RM3/1, p155, hemoglobin-haptoglobin complex receptor, or macrophage-associated antigen. It is a 134 kD (non-reduced)/155 kD (reduced) glycoprotein primarily expressed on macrophages, Kupffer cells, monocytes, a subset of dendritic cells, and a subset of hematopoietic stem/progenitor cells. CD163 binds to haptoglobin-hemoglobin complex and TWEAK, and plays a role in clearing hemoglobin and regulating cytokine production by macrophages. Membrane CD163 can be cleaved by metalloproteinases (MMP), resulting in a soluble form. Elevated serum level of sCD163 has been implicated in many kinds of inflammatory diseases.

Antigen References: 1. Wang S, et al. 2002. *J. Biol. Chem.* 96:2808.
2. Wong SC, et al. 2003. *Blood* 102:1831.