

**APC anti-mouse CD163**

**Catalog # / Size:** 1376530 / 100 µg  
1376525 / 25 µg

**Clone:** S15049I

**Isotype:** Rat IgG2a, κ

**Immunogen:** Recombinant mouse CD163 extracellular domain

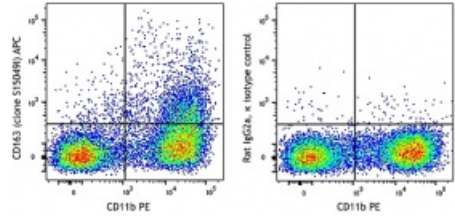
**Reactivity:** Mouse

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

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

**Workshop Number:** HCDM listed

**Concentration:** 0.2 mg/ml



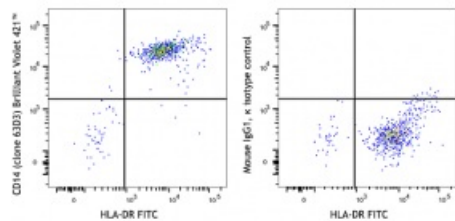
C57BL/6 bone marrow cells were stained with CD11b PE and CD163 (clone S15049I) APC (left) or rat IgG2a, κ APC isotype control (right). Data shown was gated on total bone marrow cells.

**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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Due to complete conservation of the immunizing sequence between humans, mouse and rat, this clone is predicted to react with rat RPS6 phosphorylated at serines 235 and 236.



Human peripheral blood monocytes were stained with HLA-DR FITC and Brilliant Violet 421™ anti-human CD14 (clone 63D3) (left) or Brilliant Violet 421™ mouse IgG1, κ isotype control (right).

**Application References:**

1. Van Rhijn I, et al. 2003. *Intl. Immunol.* 15:373.
2. Yoshino N, et al. 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)

**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** 1. Scotet E, *et al.* 2005. *Immunity* 22:71  
**References:** 2. Rincon-Orozco B, *et al.* 2005. *J. Immunol.* 175:2144