

**Alexa Fluor® 647 anti-human CD163**

**Catalog # / Size:** 2232540 / 100 tests  
2232535 / 25 tests

**Clone:** RM3/1

**Isotype:** Mouse IgG1, κ

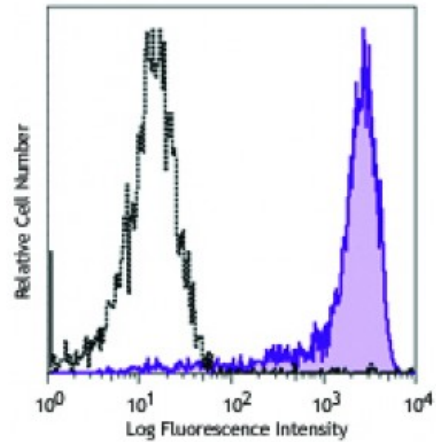
**Immunogen:** Human monocytes

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Concentration:** Lot-specific



IL-10-stimulated (overnight) human peripheral blood monocytes were stained with CD163 (clone RM3/1) Alexa Fluor® 647 (filled histogram) or mouse IgG1, κ Alexa Fluor® 647 isotype control (open histogram).

**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 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

**Application Notes:** Clone RM3/1 binds to domain 9 of CD163. Additional reported applications (for the relevant formats) include: immunofluorescence<sup>7</sup>.

- Application References:**
- Högger P, *et al.* 1998. *J. Immunol.* 161:1883. (FC)
  - Zwadlo G, *et al.* 1987. *Exp. Cell Biol.* 55:295. (FC)
  - Buechler C, *et al.* 2000. *J. Leukoc. Biol.* 67:97. (FC)
  - Puig-Kroger A, *et al.* 2009. *Cancer Res.* 69:9395. (FC) [PubMed](#)
  - Madsen M, *et al.* 2004. *J. Biol. Chem.* 279:51561. (FC)
  - Jones K, *et al.* 2013. *Clin Cancer Res.* 19:731. (FC) [PubMed](#)
  - Stewart DA, *et al.* 2012. *Mol. Cancer Res.* 10:727. (IF)

**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, Kuffer cells, monocytes, 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 inflammation diseases.

- Antigen**
- References:**
1. Roth J, *et al.* 1994. *Transplantation*. 57:127.
  2. Van den Heuvel MM, *et al.* 1999. *J. Leukoc. Biol.* 66:858.
  3. Sulahian TH, *et al.* 2000. *Cytokines* 12:1312.
  4. Fabriek BO, *et al.*