## **Product Data Sheet**

## PE/Cy7 anti-human CD163

Catalog # / Size: 2232570 / 100 tests

2232565 / 25 tests

Clone:

Isotype: Mouse IgG1, κ

Immunogen: Human monocytes

Reactivity: Human

**Preparation:** The antibody was purified by affinity

chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7

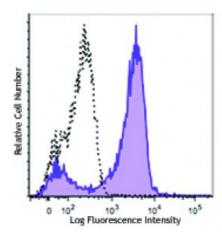
and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

**Concentration:** Lot-specific



Human peripheral blood monocytes were incubated overnight with IL-10 and then stained with anti-human CD163 (clone RM3/1) PE/Cv7 (filled histogram) or mouse IgG1, K PE/Cy7 isotype control (open histogram).

## **Applications:**

Flow Cytometry **Applications:** 

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.

**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:

1. Högger P, et al. 1998. J. Immunol. 161:1883. (FC) 2. Zwadlo G, et al. 1987. Exp. Cell Biol. 55:295. (FC)

3. Buechler C, et al. 2000. J. Leukoc. Biol. 67:97. (FC)

4. Puig-Kroger A, et al. 2009. Cancer Res. 69:9395. (FC) PubMed

5. Madsen M, et al. 2004. J. Biol. Chem. 279:51561. (FC) 6. Jones K, et al. 2013. Clin Cancer Res. 19:731. (FC) PubMed

7. 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. Transolantation. 57:127.

2. Van den Heuvel MM, et al. 1999. J. Leukoc. Biol. 66:858.

4. Fabriek BO, et al.	

3. Sulahian TH, et al. 2000. Cytokines 12:1312.