

**PE/Cyanine5 anti-human CD163**

**Catalog # / Size:** 2268220 / 100 tests  
2268215 / 25 tests

**Clone:** GHI/61

**Isotype:** Mouse IgG1, κ

**Immunogen:** Mouse T cell clone D10.G4.1

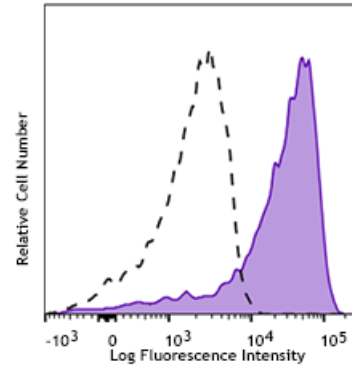
**Reactivity:** Human, Non-human primate, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cyanine5 under optimal conditions.

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

**Workshop Number:** VI M38

**Concentration:** Lot-specific



Human peripheral blood monocytes were stained with anti-human CD163 (Clone GHI/61) PE/Cyanine5 (filled histogram) or mouse IgG1, κ PE/Cyanine5 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 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Clone GHI/61 binds to domain 7 of CD163. Additional reported applications (for the relevant formats) include: immunocytochemical staining, immunoprecipitation, and western blot.<sup>1</sup>

- Application References:**
1. Pulford K, *et al.* 1992. *Immunology* 75:588. (ICC, IP, WB)
  2. Law SK, *et al.* 1993. *Eur. J. Immunol.* 23:2320.
  3. Madsen M, *et al.* 2004. *J. Biol. Chem.* 279:51561.
  4. Kim WK, *et al.* 2006. *Am. J. Pathol.* 168:822. (FC)
  5. Buttari B, *et al.* 2011. *Atherosclerosis.* 215:316. [PubMed](#)

**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. 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. Fabrick BO, et al. 2007 *J. Neuroimmunol.* 187:179