

## PE/Dazzle™ 594 anti-human CD163

**Catalog # / Size:** 2268115 / 25 tests  
2268120 / 100 tests

**Clone:** GHI/61

**Isotype:** Mouse IgG1, κ

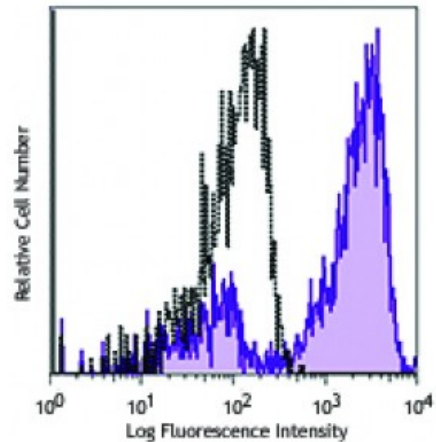
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

**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 CD163 (clone GHI/63) PE/Dazzle™ 594 (filled histogram) or mouse IgG1, κ PE/Dazzle™ 594 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.

\* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

**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.1

**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. Fabriek BO, *et al.* 20