

**Biotin anti-human CD163**

**Catalog # / Size:** 2268020 / 100 µg  
2268015 / 25 µg

**Clone:** GHI/61

**Isotype:** Mouse IgG1, κ

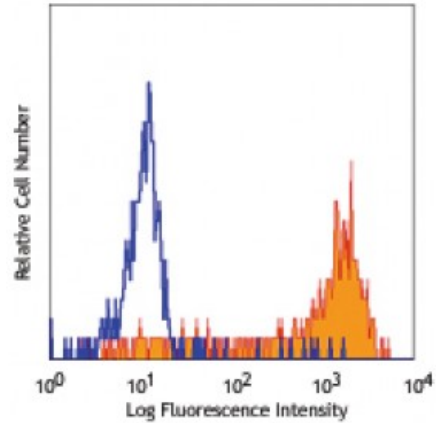
**Reactivity:** Human

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

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

**Workshop Number:** VI M38

**Concentration:** 0.5



Human peripheral blood monocytes stained with biotinylated GHI/61, followed by Sav-PE

**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 ≤1.0 microg per million cells in 100 microL volume. 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.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