

Brilliant Violet 510™ anti-human CD163

Catalog # / Size: 2268140 / 100 tests
2268135 / 25 tests

Clone: GHI/61

Isotype: Mouse IgG1, κ

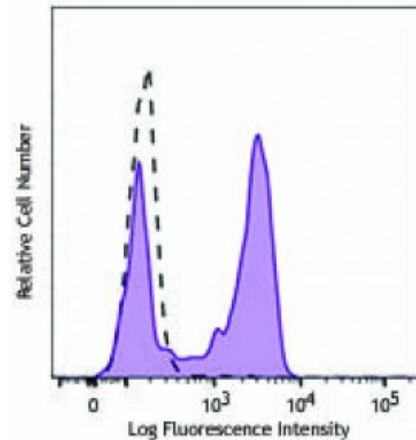
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.

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

Workshop Number: VI M38

Concentration: Lot-specific



Human peripheral blood monocytes were stained with CD163 (clone GHI/61) Brilliant Violet 510™ (filled histogram) or mouse IgG1, κ Brilliant Violet 510™ 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.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

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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. Fabrick BO, *et al.* 20