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Product Data Sheet

PerCP/Cyanine5.5 anti-human CD163

Catalog # / Size: 2232555 / 25 tests
2232560 / 100 tests

Clone: RM3/1

Isotype: Mouse IgG1, κ

Immunogen: Human monocytes

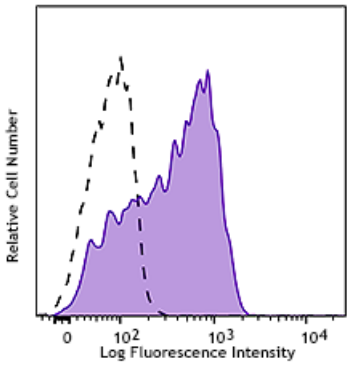
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.

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

Workshop Number: V CD24.5

Concentration: Lot-specific



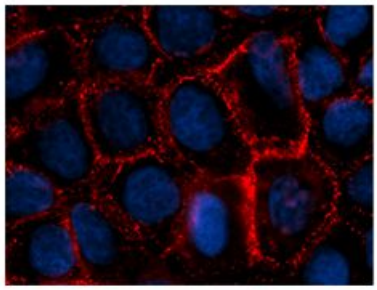
Human peripheral blood monocytes were incubated overnight with recombinant human IL-10, treated with Human TruStain FcX™ (Fc Receptor Blocking Solution) then stained with CD163 (clone RM3/1) PerCP/Cyanine5.5 (filled histogram) or mouse IgG1, κ PerCP/Cyanine5.5 isotype control (open histogram).

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 or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.



Application Notes: Clone RM3/1 binds to domain 9 of CD163. Additional reported applications (for the relevant formats) include: immunofluorescence[7].

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)

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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.*
3. Sulahian TH, et al. 2000. Cytokines 12:1312.
4. Fabriek BO, et al. 2007. J. Neuroimmunol. 187:179.

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