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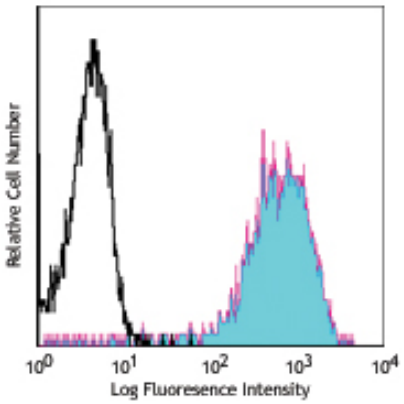
Product Data Sheet

Biotin anti-human CD163

Catalog # / Size: 326503 / 25 µg
Clone: RM3/1
Isotype: Mouse IgG1, κ
Immunogen: human monocytes
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.
Concentration: 0.5 mg/ml
Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



IL-10 stimulated human peripheral blood monocytes stained with biotinylated RM3/1, followed by Sav-PE

Applications:

Applications: FC - *Quality tested*
Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes: Clone RM3/1 binds to domain 9 of CD163.
Application References:
1. Högger P, *et al.* 1998. *J. Immunol.* 161:1883.
2. Zwadlo G, *et al.* 1987. *Exp. Cell Biol.* 55(6):295.
3. Buechler C, *et al.* 2000. *J. Leukoc. Biol.* 67:97.
4. Puig-Kroger A, *et al.* 2009. *Cancer Res.* 69:9395. PubMed
5. Madsen M, *et al.* 2004. *J. Biol. Chem.* 279:51561.

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 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.

Related Products:

Product	Clone	Application
Biotin Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
APC Streptavidin		FC, ICFC
APC/Cy7 Streptavidin		FC, ICFC
PE Streptavidin		FC, ICFC
PE/Cy5 Streptavidin		FC, ICFC
PE/Cy7 Streptavidin		FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

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