

Alexa Fluor® 647 anti-human CD163

Catalog # / Size: 326507 / 25 tests
326508 / 100 tests

Clone: RM3/1

Isotype: Mouse IgG1, κ

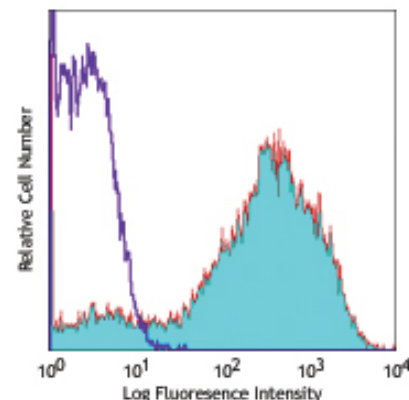
Immunogen: human monocytes

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



GM-CSF-stimulated (day-3) human monocytes stained with RM3/1 Alexa Fluor® 647

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

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Clone RM3/1 binds to domain 9 of CD163.

- Application References:**
- Högger P, *et al.* 1998. *J. Immunol.* 161:1883.
 - Zwadlo G, *et al.* 1987. *Exp. Cell Biol.* 55(6):295.
 - Buechler C, *et al.* 2000. *J. Leukoc. Biol.* 67:97.
 - Puig-Kroger A, *et al.* 2009. *Cancer Res.* 69:9395. PubMed
 - Madsen M, *et al.* 2004. *J. Biol. Chem.* 279:51561.
 - Jones K, *et al.* 2013. *Clin Cancer Res.* 19:731. 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, 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:**
- Roth J, *et al.* 1994. *Transplantation.* 57:127.
 - Van den Heuvel MM, *et al.* 1999. *J. Leukoc. Biol.* 66:858.
 - Sulahian TH, *et al.* 2000. *Cytokines* 12:1312.
 - Fabrieck BO, *et al.* 2007. *J. Neuroimmunol.* 187:179.

Related Products:	Product	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)	MOPC-21	FC, IF
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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