

Biotin anti-human CD206 (MMR)

Catalog # / Size: 321117 / 25 µg
321118 / 100 µg

Clone: 15-2

Isotype: Mouse IgG1, κ

Immunogen: Purified human mannose receptor

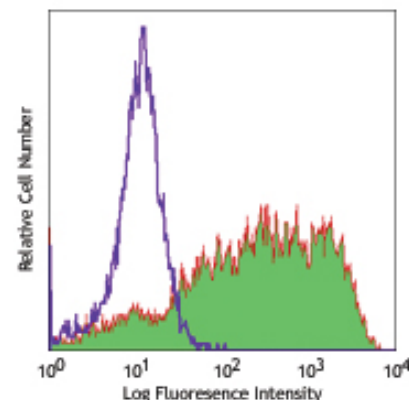
Reactivity: Human

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.**



GM-CSF-stimulated human peripheral blood monocytes (day-3) stained with biotinylated 15-2, followed by Sav-PE

Applications:

Applications: FC - *Quality tested*
IHC - *Reported in the literature*

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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: The 15-2 antibody blocks the interaction of MMR with its ligand, and inhibits mannose receptor-mediated degradation of t-PA by macrophages. Additional reported applications of this antibody (for the relevant formats) include: Western blotting¹, blocking of ligand binding^{1,2}, immunofluorescence³, and immunohistochemical staining of acetone-fixed frozen tissue sections¹. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 321112).

Application References:

- Noorman F, *et al.* 1997. *J. Leukocyte Biol.* 61:63. (WB, IHC, Block)
- Barrett-Bergshoeff M, *et al.* 1997. *Thromb Haemost.* 77:718. (Block)
- Kato M, *et al.* 2007. *J. Immunol.* 179:6052. (IF)

Description: Macrophage mannose receptor (MMR) is a 162-175 kD type I membrane protein also known as CD206, MRC1, or mannose receptor (MR). It is a pattern recognition receptor (PRR) that belongs to C-type lectin superfamily. MMR is expressed on macrophages, dendritic cells, and hepatic or lymphatic endothelial cells, but not on monocytes. MMR recognizes a range of microbial carbohydrates bearing mannose, fucose, or N-acetyl glucosamine. MMR mediates endocytosis and phagocytosis, induces activation of macrophages and antigen presentation, plays an important role in host defense, and provides a link between innate and adaptive immunity.

Antigen References:

- Mason D, *et al.* Eds. 2002. *Leukocyte Typing VII.* Oxford University Press. p303
- Wileman TE, *et al.* 1986. *P. Natl. Acad. Sci. USA* 83:2501.
- Apostolopoulos V and McKenzie IF. 2001. *Curr. Mol. Med.* 1:469.
- Le Cabec V, *et al.* 2005. *J. Leukocyte Biol.* 77:934.
- Barrett-Bergshoeff M, *et al.* 1997. *Thromb. Haemostatis* 77:718.

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



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