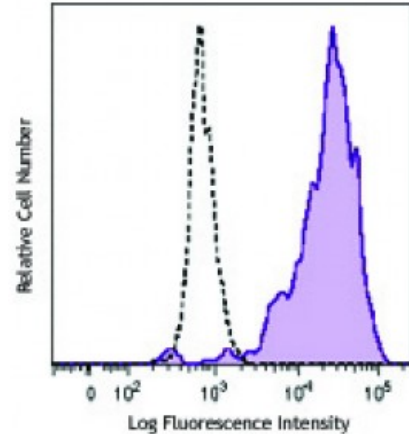


Brilliant Violet 421™ anti-human CD206 (MMR)

Catalog # / Size:	2205625 / 25 tests 2205630 / 100 tests
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 Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration:	Lot-specific



GM-CSF-stimulated (3 days) human peripheral blood monocytes were stained with CD206 (clone 15-2) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ 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 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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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 blotting ¹ , blocking of ligand binding ^{1,2} , immunofluorescence ³ , and immunohistochemical staining of acetone-fixed frozen tissue sections ¹ . The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 321112).
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Application References:	1. Noorman F, <i>et al.</i> 1997. <i>J. Leukocyte Biol.</i> 61:63. (WB, IHC, Block) 2. Barrett-Bergshoeff M, <i>et al.</i> 1997. <i>Thromb Haemost.</i> 77:718. (Block) 3. Kato M, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:6052. (IF)
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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:

1. Mason D, *et al.* Eds. 2002. Leukocyte Typing VII. Oxford University Press. p303
2. Wileman TE, *et al.* 1986. *P. Natl. Acad. Sci. USA* 83:2501.
3. Apostolopoulos V and McKenzie IF. 2001. *Curr. Mol. Med.* 1:46