

## LEAF™ Purified anti-human CD206 (MMR)

**Catalog # / Size:** 321111 / 50 µg  
321112 / 500 µg

**Clone:** 15-2

**Isotype:** Mouse IgG1, κ

**Immunogen:** Purified human mannose receptor

**Reactivity:** Human

**Preparation:** The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

**Formulation:** 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

**Concentration:** 1.0 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

## Applications:

**Applications:** FC - *Quality tested*  
WB, IF, IHC, Block - *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 ≤ 1.0 µg per 10<sup>6</sup> cells in 100 µl volume or per 100 µl whole blood. 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 blotting<sup>1</sup>, blocking of ligand binding<sup>1,2</sup>, immunofluorescence<sup>3</sup>, and immunohistochemical staining of acetone-fixed frozen tissue sections<sup>1</sup>. 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:** 1. Noorman F, *et al.* 1997. *J. Leukocyte Biol.* 61:63. (WB, IHC, Block)  
2. Barrett-Bergshoeff M, *et al.* 1997. *Thromb Haemost.* 77:718. (Block)  
3. 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:** 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.* 1:469.  
4. Le Cabec V, *et al.* 2005. *J. Leukocyte Biol.* 77:934.  
5. Barrett-Bergshoeff M, *et al.* 1997. *Thromb. Haemostatis* 77:718.

**Related Products:**

**Product**  
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

**Clone**  
MOPC-21

**Application**  
FC, ICFC, WB, IP, ICC, IF, FA  
FC, ICC, ICFC  
FC, ICFC



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