

### Analyte Specific Reagent.

Analytical and performance characteristics are not established.

#### SPECIFICITY

CD206 molecule also called Macrophage Mannose Receptor (MMR) (1) is a type I single-chain transmembrane glycoprotein of 175 kDa with a multilectin receptor structure (2). The CD206 antigen is thought to play a key role in the internalization of sugar-containing proteins (2) thus concentrating antigens for transport to processing compartments and peptide loading compartments (3).

First detected on tissue macrophages, the CD206 antigen is mainly expressed on immature dendritic cells (4) and on a variety of other cells (2). Absent on lymphocytes and monocytes, CD206 is up-regulated on monocytes during their differentiation to macrophages.

The 3.29B1.10 monoclonal antibody is specific for CD206 antigen (3-6).

#### REAGENT

IOTest CD206 (MMR)-PE  
Conjugated Antibody  
PN IM2741 - 2 mL - Liquid

<b>Clone</b>	3.29B1.10
<b>Isotype</b>	IgG1, Mouse
<b>Immunogen</b>	Dendritic cells
<b>Hybridoma</b>	X63 x balb/c
<b>Source</b>	Ascites fluid or supernatant of in vitro cultured hybridoma cells.
<b>Purification</b>	Affinity chromatography
<b>Conjugation</b>	R Phycocerythrin (PE)
<b>Molar Ratio</b>	PE / Ig : 0.5 - 1.5
<b>Fluorescence</b>	Excites at 488 nm Emits at 575 nm

#### REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin. Concentration: See lot specific Certificate of Analysis at [www.beckmancoulter.com](http://www.beckmancoulter.com).

#### STATEMENTS OF WARNING

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
3. Never pipet with mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.
8. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

#### STORAGE AND HANDLING CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

#### SELECTED RESEARCH REFERENCES

1. Kato, M., Macdonald, K., Munster, D., Clark, G.J., Hart, D. N.J., "CD206 Macrophage Mannose Receptor Workshop report", Section: New CD Antigens, 7<sup>th</sup> HLDA Workshop, Harrogate, Ed Oxford Univ. Press, 2002, 303-306.
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3. Engering, A.J., Cella, M., Fluitsma, D.M., Hoefsmit, E.C.M., Lanzavecchia, A., Pieters, J., "Mannose receptor mediated antigen uptake and presentation in human dendritic cells", 1997, *Dendritic cells in Fundamental and clinical Immunology*, Ricciardi-Castagnoli, Eds., Plenum Press, New York, 183-187.
4. Sallusto, F., Cella, M., Danieli, C., Lanzavecchia, A., "Dendritic cell use macropinocytosis and the mannose receptor to concentrate macromolecules in the major histocompatibility complex class II compartment : downregulation by cytokines and bacterial products", 1995, *J. Exp. Med.*, 182, 389-400.
5. Engering, A.J., Cella, M., Fluitsma, D., Brockhaus, M., Hoefsmit, C.M.E., Lanzavecchia, A., Pieters, J., "The mannose receptor functions as a high capacity and broad specificity antigen receptor in human dendritic cells", 1997, *Eur. J. Immunol.*, 27, 2417-2425.
6. Zola H, Swart B, Nicholson I, Voss E: *Leukocyte and Stromal Cell Molecules: The CD Markers*, Wiley, New York; 2007.

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