

# IO Test Conjugated Antibody CD206 (MMR)-PC7

	Specifications
Specificity	CD206 (MMR)
Clone	3.29B1.10
Hybridoma	X63 x balb/c
Immunogen	Dendritic cells
Isotype	IgG1
Species	Mouse
Purification	Affinity Chromatography
Fluorochrome	R Phycoerythrin-Cyanine 7 (PC7)
Molar ratio	PC7 / Ig: 0.5-1.5
$\lambda$ excitation	488 nm
Emission Peak	770 nm
Buffer	PBS pH 7.2 plus 2 mg / mL BSA and 0.1% NaN <sub>3</sub>

**REF** B36120 Liquid - 0.5 mL

## Analyte Specific Reagent.

Analytical and performance characteristics are not established

## REAGENTS

Concentration: See lot specific Certificate of Analysis at [www.beckmancoulter.com](http://www.beckmancoulter.com).

## WARNING AND PRECAUTIONS

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 by 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.

## GHS HAZARD CLASSIFICATION

Not classified as hazardous

<b>SDS</b>	Safety Data Sheet is available at <a href="http://techdocs.beckmancoulter.com">techdocs.beckmancoulter.com</a>
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## 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.

## CONTENTS

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

## 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 (3,4,5,6).

The 3.29B1.10 has been assigned to the CD206 cluster of differentiation during the 7th HLDA Workshop on Human Leukocyte Differentiation Antigens, held in Harrogate, UK, in 2000 (1).

## LIMITATIONS

Due to the tandem structure of the fluorochrome, PC7 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC7. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a PC7 -conjugate.

Non-specific binding may occur on leucocytes populations on some blood samples with CD206-PC7 conjugate.

## TRADEMARKS

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## ADDITIONAL INFORMATION

For additional information, or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

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## 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, 7th HLDA Workshop, Harrogate, Ed Oxford Univ. Press, 2002, 303-306.
2. Stahl, P.D., Ezekowitz, R.A.B., "The mannose receptor is a pattern recognition receptor involved in host defense", 1998, *Curr. Opin. Immunol.*, 10, 50-55.
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 macro-molecules 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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