

Datasheet: MCA2235PB

Description:	RAT ANTI MOUSE CD206:Pacific Blue®		
Specificity:	CD206		
Other names:	MANNOSE RECEPTOR C TYPE 1		
Format:	Pacific Blue®		
Product Type:	Monoclonal Antibody		
Clone:	MR5D3		
Isotype:	lgG2a		
Quantity:	100 TESTS/1ml		

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)				Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) CD206 is expressed weakly at the cell surface. Staining may be increased following membrane permeabilisation. We recommend the use of Leucoperm (Product Code <u>BUF09</u>) for this purpose.

arget Species	Mouse			
roduct Form	Purified IgG conjugate	ed to Pacific Blue® - li	quid	
lax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	Pacific Blue®	410	455	
	Purified IgG prepared by affinity chromatography on Protein G supernatant			
paration	.	by affinity chromatogi	raphy on Protein G	
reparation uffer Solution	.		raphy on Protein G	
	supernatant	aline	raphy on Protein G	

Approx. Protein Concentrations	IgG concentration 0.05 mg/ml			
Immunogen	Chimaeric CRD4-7-Fc protein			
External Database Links	UniProt: Q61830 Related reagents			
	Entrez Gene: 17533 Mrc1 Related reagents			
Fusion Partners	Spleen cells from immunized Fischer rats were fused with cel			

ells of the Y3 myeloma cell line

Specificity

Rat anti Mouse CD206 antibody, clone MR5D3 recognizes the mouse mannose receptor, a ~175 kDa type 1 membrane glycoprotein that is also known as CD206. CD206 is expressed on most tissue macrophages, certain endothelial cells and in vitro derived dendritic cells (Zamze et al. 2002).

The mannose receptor, CD206, is composed of a N-terminal cysteine-rich domain, a fibronectin type II domain, eight tandemly arranged C-type lectin domains (CTLD), a transmembrane domain, and a cytoplasmic domain. The terminal cysteine-rich domain binds sulfated sugars, and the CTLD recognizes carbohydrates terminating in mannose, fucose and N-acetylglucosamine, all sugars found on microorganisms and on some endogenous proteins (Su et al. 2005).

Rat anti mouse CD206 antibody, clone MR5D3 has been reported to be non-inhibitory for the binding of the mannose receptor to carbohydrate ligands (Zamze et al. 2002). Clone MR5D3 has also been shown to work in western blotting (Martinez-Pomares et al. 2003) and Su et al. 2005).

Flow Cytometry

Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl.

The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/BUF041B).

References

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Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at:

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10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:Pacific Blue® (MCA1212PB)

Recommended Useful Reagents

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