Datasheet: MCA2155

Description:	MOUSE ANTI HUMAN CD206
Specificity:	CD206
Other names:	MANNOSE RECEPTOR C TYPE 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	15-2
Isotype:	IgG1
Quantity:	0.2 mg

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	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting (1)	▪			
Immunofluorescence	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.
(1)**Clone 15-2 recognises a protein of approximately 175kDa under non-reducing conditions.**

Target Species	Human
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen	Purified human mannose receptor.
External Database Links	**UniProt:** P22897 Related reagents **Entrez Gene:** 4360 MRC1 Related reagents
Synonyms	CLEC13D
RRID	AB_323520
Fusion Partners	Spleen cells from immunised Balb/c mice where fused with cells of the SP2/0 Ag.14 mouse myeloma cell line.
Specificity	**Mouse anti Human CD206 monoclonal antibody, clone 15-2** recognizes human macrophage mannose receptor 1, also known as CD206 or C-type lectin domain family 13 member D-like. CD206 is a ~175 kDa single pass type I transmembrane glycoprotein belonging to the group of pattern recognition receptors (Paveley *et al.* 2011). CD206 has multiple carbohydrate recognition motifs and acts as a receptor for bacteria, fungi and other pathogens (Ezekowitz *et al.* 1990). CD206 is predominantly expressed in tissue macrophages and dendritic cells (Engering *et al.* 1997) and can also be found in a subpopulation of endothelial cells (Pack *et al.* 2007) and sperm cells (Cardona-Maya *et al.* 2006). CD206 can also be detected in a soluble form in human plasma and is elevated in patients with acute sepsis (Rødgaard-Hansen *et al.* 2013). Mouse anti CD206, clone 15-2 has been used extensively to monitor mannose receptor modulation in macrophages treated with a wide range of cytokines and growth factors (Chang *et al.* 2004) and to indicate CD206 as a marker for alternative activation of macrophages (Joerink *et al.* 2011).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Barrett-Bergshoeff, M. *et al*. (1997) Monoclonal antibodies against the human mannose receptor that inhibit the binding of tissue-type plasminogen activator. Thromb Haemost. 77: 718-24. 2. Koning, N. *et al.* (2009) Distribution of the immune inhibitory molecules CD200 and CD200R in the normal central nervous system and multiple sclerosis lesions suggests neuron-glia and glia-glia interactions. J Neuropathol Exp Neurol. 68: 159-67. 3. Emara, M. *et al.* (2011) Recognition of the major cat allergen Fel d 1 through the cysteine-rich domain of the mannose receptor determines its allergenicity. J Biol Chem. 286:13033-40. 4. Chang, S.K. *et al.* (2008) B lymphocyte stimulator regulates adaptive immune responses by directly promoting dendritic cell maturation. J Immunol. 180: 7394-403. 5. MacKinnon, A.C. *et al.* (2008) Regulation of alternative macrophage activation by galectin-3. J Immunol. 180: 2650-8. 6. Lai, W.K. *et al.* (2006) Expression of DC-SIGN and DC-SIGNR on human sinusoidal

endothelium: a role for capturing hepatitis C virus particles. Am J Pathol. 169: 200-8.
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17. Karna, S.L. *et al.* (2016) RNA-Seq Transcriptomic Responses of Full-Thickness Dermal Excision Wounds to *Pseudomonas aeruginosa* Acute and Biofilm Infection. PLoS One. 11 (10): e0165312.
18. Özçelik H *et al.* (2015) Harnessing the multifunctionality in nature: a bioactive agent release system with self-antimicrobial and immunomodulatory properties. Adv Healthc Mater. 4 (13): 2026-36.
19. Argueta-Donohué J *et al.* (2016) Differential phagocytosis of *Leishmania mexicana* promastigotes and amastigotes by monocyte-derived dendritic cells. Microbiol Immunol. 60 (6): 369-81.

Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf

Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South America
Tel: +1 800 265 7376
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Email: antibody_sales_us@bio-rad.com

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Fax: +44 (0)1865 852 739
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