

Datasheet: MCA2519

Description:	MOUSE ANTI HUMAN CD206
Specificity:	CD206
Other names:	MANNOSE RECEPTOR C TYPE 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	7-450
Isotype:	IgG2a
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	■			1/50 - 1/500
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting			■	

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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Monocyte-derived dendritic cells.

**External Database
Links**

UniProt:

[P22897](#)

[Related reagents](#)

Entrez Gene:

[4360](#)

MRC1

[Related reagents](#)

Synonyms

CLEC13D

Fusion Partners

Spleen cells from immunised Balb/c mice were fused with cells of the X63-Ag8.653 myeloma cell line.

Specificity

Mouse anti Human CD206 antibody, clone 7-450 recognizes human CD206, otherwise known as macrophage mannose receptor (MMR), a transmembrane protein and member of the multilectin family of pattern recognition receptors (PRRs), which mediates phagocytosis and endocytosis, and is modulated by a range of factors including cytokines, immunoglobulin receptors and pathogens.

CD206 has two extracellular lectin binding sites: the cysteine-rich domain binds to sulphated sugars of glycoproteins such as thyroid stimulating hormone, whilst the recognition of mannose and fucose occurs through carbohydrate recognition domains (CRDs). The widespread distribution and recognition of a wide range of antigens by macrophages, plays a key role in both innate and adaptive immunity, with CD206 able to bind to both gram-negative and gram-positive bacteria, mycobacterium, yeasts, fungi and parasites. The expression of CD206 is not restricted to macrophages, but is also present on immature dendritic cells (DCs), endothelial cells, kidney mesangial cells, retinal pigment epithelium and tracheal smooth muscle cells.

**Histology Positive
Control Tissue**

Human tonsil.

Further Reading

1. Stahl, P.D. & Ezekowitz, R.A. (1998) The mannose receptor is a pattern recognition receptor involved in host defense. [Curr Opin Immunol. 10 \(1\): 50-5.](#)
2. Gordon, S. (1995) The macrophage. [Bioessays. 17 \(11\): 977-86.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 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 (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000C\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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