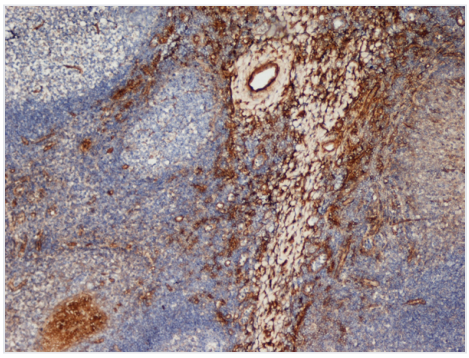
CD206 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD206, Monoclonal Antibody
Full Product Name	MOUSE ANTI HUMAN CD206
Product Gene Name	anti-CD206 antibody
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	7-450
Host	Mouse
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C or at -20 degree 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.
OMIM	153618
3D Structure	ModBase 3D Structure for P22897
Perservative Stabilisers	0.09% Sodium Azide (NaN3)
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Immunogen	Monocyte-derived dendritic cells.
Histology Positive Control Tissue	Human tonsil.
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the X63-Ag8.653 myeloma cell line.
Buffer Solution	Phosphate buffered saline
Target Species	Human
Applications Tested/Suitable for anti-CD206 antibody	Immunohistology Frozen
Application Notes for anti-CD206 antibody	**Immunohistology - Frozen:** Minimum Dilution: 1/50; Maximum Dilution: 1/500
Related Product Information for anti-CD206 antibody	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.
Other Notes	Small volumes of anti-CD206 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for CD206 purchase	MBS214361 is an antibody targeting CD206. Also known as MOUSE ANTI HUMAN CD206. Host: Mouse.



Testing Data of anti-CD206 antibody
Staining of frozen Human Tonsil stained with Mouse anti Human CD206 (MBS214362)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD206. It may not necessarily be applicable to this product.

NCBI GI #	4505245
NCBI GeneID	4360
NCBI Accession #	NP_002429.1
UniProt Primary Accession #	P22897
UniProt Secondary Accession #	Q5VSJ2; Q5VSK2; A5PKW3
UniProt Related Accession #	P22897
GenBank Nucleotide #	NM_002438.3
NCBI Official Full Name	macrophage mannose receptor 1
NCBI Official Synonym Full Names	mannose receptor, C type 1
NCBI Official Symbol	MRC1
NCBI Official Synonym Symbols	MMR; CD206; MRC1L1; CLEC13D; CLEC13DL; bA541I19.1
UniProt Protein Name	Macrophage mannose receptor 1
UniProt Synonym Protein Names	C-type lectin domain family 13 member D; C-type lectin domain family 13 member D-like; Macrophage mannose receptor 1-like protein 1; CD_antigen: CD206
Protein Family	Macrophage mannose receptor
UniProt Gene Name	MRC1
UniProt Synonym Gene Names	CLEC13D; CLEC13DL; MRC1L1; MMR
UniProt Entry Name	MRC1_HUMAN
NCBI Protein Information	macrophage mannose receptor 1; C-type lectin domain family 13 member D; macrophage mannose receptor 1-like protein 1; mannose receptor, C type 1-like 1
NCBI Summary for CD206	The recognition of complex carbohydrate structures on glycoproteins is an important part of several biological processes, including cell-cell recognition, serum glycoprotein turnover, and neutralization of pathogens. The protein encoded by this gene is a type I membrane receptor that mediates the endocytosis of glycoproteins by macrophages. The protein has been shown to bind high-mannose structures on the surface of potentially pathogenic viruses, bacteria, and fungi so that they can be neutralized by phagocytic engulfment.[provided by RefSeq, Apr 2011]

UniProt Comments for CD206	MRC1: Mediates the endocytosis of glycoproteins by macrophages. Binds both sulfated and non-sulfated polysaccharide chains. Acts as phagocytic receptor for bacteria, fungi and other pathogens. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Motility/polarity/chemotaxis; Receptor, misc. Chromosomal Location of Human Ortholog: 10p12.33 Cellular Component: cell surface; integral to plasma membrane; plasma membrane; endosome membrane Molecular Function: mannose binding; protein binding; transmembrane receptor activity; receptor activity Biological Process: receptor-mediated endocytosis; signal transduction
Research Articles on CD206	**1.** presence of soluble form of MR in human serum in critical illness
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