BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-CD206/MRC1 Antibody (Monoclonal, 31M03)

Catalog Number: M02285-3

About MRC1

The mannose receptor (Cluster of Differentiation 206,CD206) is a C-type lectin primarily present on the surface of macrophages,immature dendritic cells and liver sinusoidal endothelial cells,but is also expressed on the surface of skin cells such as human dermal fibroblasts and keratinocytes. It is mapped to 10p12.33. 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.

Overview

Product Name	Anti-CD206/MRC1 Antibody (Monoclonal, 31M03)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CD206/MRC1 Antibody (Monoclonal, 31M03) catalog # M02285-3. Tested in WB, IHC, IF, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.
Application	IP, IF, IHC, ICC, WB
Clonality	Monoclonal 31M03
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q61830

Technical Details

Immunogen	E.coli-derived mouse Mannose Receptor/MRC1 recombinant protein (Position: L3-F407).
Form	Liquid
Concentration	500 ug/ml
Purification	Protein A affinity purified.

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Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-200 Immunofluorescence, 1:50-200 Immunocytochemistry/Immunofluorescence, 1:50-200 ImmunoPrecipitation, 1:50

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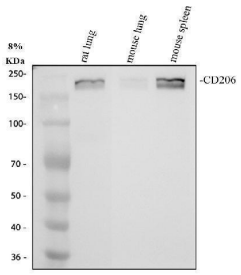
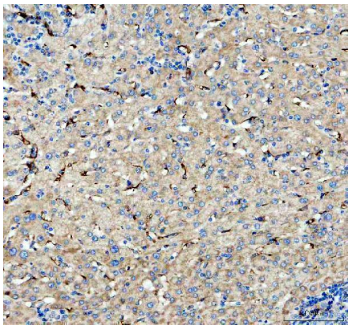
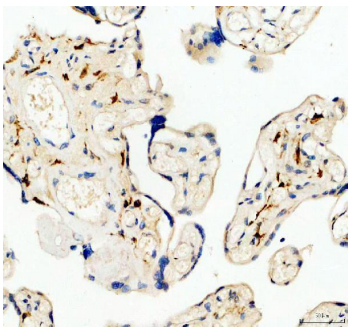
Anti-CD206/MRC1 Antibody (Monoclonal, 31M03) (M02285-3) Images



Western blot analysis of CD206/MRC1 using anti-CD206/MRC1 antibody (M02285-3). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat lung tissue lysates, Lane 2: mouse lung tissue lysates, Lane 3: mouse spleen tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CD206/MRC1 antigen affinity purified monoclonal antibody (M02285-3) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for CD206/MRC1 at approximately 180-200 kDa. The expected band size for CD206/MRC1 is at 165 kDa.



IHC analysis of CD206/MRC1 using anti-CD206/MRC1 antibody (M02285-3). CD206/MRC1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-CD206/MRC1 Antibody (M02285-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of CD206/MRC1 using anti-CD206/MRC1 antibody (M02285-3). CD206/MRC1 was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-CD206/MRC1 Antibody (M02285-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

IHC analysis of CD206/MRC1 using anti-CD206/MRC1 antibody (M02285-3). CD206/MRC1 was detected in a paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was

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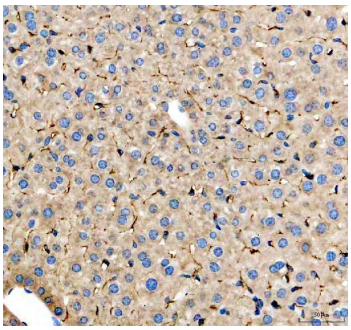
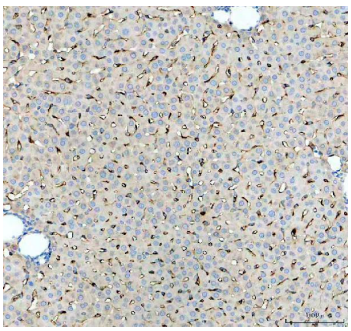


blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-CD206/MRC1 Antibody (M02285-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of CD206/MRC1 using anti-CD206/MRC1 antibody (M02285-3). CD206/MRC1 was detected in a paraffin-embedded section of rat liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-CD206/MRC1 Antibody (M02285-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Anti-CD206/MRC1 Antibody (Monoclonal, 31M03)

For Research Use Only. Not for use in diagnostic procedures.