

Mouse Anti-CD206/Mannose Receptor/MMR [D1]: MC0483, MC0483RTU7

Intended Use: For Research Use Only

Description: CD206 or Macrophage Mannose Receptor (MMR) is a 175 kDa scavenger receptor that is expressed on tissue macrophages, myeloid dendritic cells, and liver and lymphatic endothelial cells. The extracellular portion of the protein includes eight C-type carbohydrate recognition domains (CRD) which are clustered together to achieve higher affinity binding to saccharides. CD206 is found on macrophages and on endothelial cells of the liver and is the only known example of a C-type lectin that contains multiple C-type CRDs. CD206 mediates the endocytosis of glycoproteins by macrophages and binds high-mannose structures on the surface of potentially pathogenic viruses, fungi and bacteria enabling them to be neutralized by phagocytic engulfment. CD206 also functions to maintain homeostasis through the endocytosis of potentially harmful glycoproteins associated with inflammation. During inflammation, CD206 is crucial for rapid clearance of several mannose-bearing serum glycoproteins but does not regulate the initiation of inflammation. CD206 is primarily expressed in mature tissue macrophages and immature dendritic cells, as well as hepatic and lymphatic endothelial cells, retinal pigmental epithelium (RPE) and mesangial cells.

Specifications:

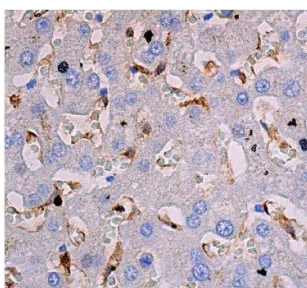
Clone: D1
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human
 Immunogen: Epitope aa 1090-1389 to an extracellular domain of human CD206
 Localization: Membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, IF, IP, WB
 Package:

Description	Catalog No.	Size
CD206/Mannose Receptor/MMR Concentrated	MC0483	1 ml
CD206/Mannose Receptor/MMR Prediluted	MC0483RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Liver, spleen, lung cancer
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human liver stained with anti-CD206 using DAB

References:

1. Feline adipose tissue-derived mesenchymal stem cells pretreated with IFN- γ enhance immunomodulatory effects through the PGE₂ pathway. Seol Gi Park, et al. J Vet Sci. Mar;22(2):e16, 2021.
2. High CD206 levels in Hodgkin lymphoma-educated macrophages are linked to matrix-remodeling and lymphoma dissemination. Annkatrin Arlt, et al. Mol Oncol. Mar;14(3):571-589, 2020.

Doc. 100-MC0483
Rev. A