

MANNOSE RECEPTOR. CD206, Antibody

GenWay ID: GWB-57D88E

Legacy ID: 20-321-175139

Size: 0.1 mg

Source: Mouse IgG1

Reactivity: Human

Details for MANNOSE RECEPTOR. CD206, Antibody

Clone: 15-2 **Applications:** The antibody can be used for immunohistology on frozen sections. immuno assays and immuno precipitation. Furthermore the antibody is useful for flow cytometry. Western blotting and ligand-receptor intervention studies. The Mannose Receptor (MR. also

known as CD206), a member of the vertebrate C-type lectin family, is a pattern recognition receptor that is involved in both innate and adaptive immunity. The 180 kDa transmembrane protein consists of 5 domains: an amino-terminal cysteine-rich region, a fibronectin type II repeat, a series of eight tandem lectin-like carbohydrate recognition domains (responsible for the recognition of mannose and fucose), a transmembrane domain, and an intracellular carboxy-terminal tail. The structure is shared by the family of multi lectin mannose receptors: the phospholipase A2-receptor, DEC 205 and the novel C-type lectin receptor (mannose receptor X). The MR recognises a wide range of gram positive and gram negative bacteria, yeasts, parasites and mycobacteria. The MR has also been shown to bind and internalize tissue-type plasminogen activator. MR's are present on monocytes and dendritic cells (DC) and are presumed to play a role in innate and adaptive immunity, the latter via processing by DC. The expression of MR as observed in immunohistology is present on tissue macrophages, dendritic cells, a subpopulation of endothelial cells, Kupffer cells and sperm cells. The expression of MR on monocytes increases during culture and can be enhanced by cytokines as IFN-gamma. Labeling of MR expressing monocytes/macrophages increases with prolonged incubation time probably due to internalization of the MR-antibody-complex. The antibody 15-2 prevents binding of glycoproteins including t-PA to MR. Detection of the MR with anti-MR monoclonal antibody 15-2 can substitute staining for mannose containing probes as labeled mannosylated BSA, a technique which is more cumbersome and less specific.

N/A [1] Fanibunda,S.E., Bandivdekar,A.H., Velhal,S.M. and Raghavan,V.P., et al.

Mannose receptor as a CD4 independent HIV binding protein on human spermatozoa

[2] Fanibunda,S.E., Bandivdekar,A.H., Velhal,S.M. and Raghavan,V.P., et al.

Direct Submission

[3] Fanibunda S.E., Bandivdekar A.H., Velhal S.M., Raghavan V.P.

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Additional Info for MANNOSE RECEPTOR. CD206, Antibody

Related Product Names	MONOCLONAL ANTIBODY TO HUMAN MANNOSE RECEPTOR. CD206 MANNOSE RECEPTOR. CD206
NCBI Acc Number	ABG47462.1
GI Number	109895388
Format	1 ml (100 ug/ml) 0.2 um filtered antibody solution in PBS, containing 0.1% bovine serum albumin.
Stability	Stable for 1 year
Clonality	Monoclonal
Storage	Product should be stored at 4 degree C
Molecular Weight	165978
Sequence Length	1456

Swiss Prot Number

Q0Z8D6