CD206
Monoclonal ANTIBODY

Catalog Number: 60143-1-Ig

Basic Information

Catalog Number: 60143-1-Ig
Size: 150 μg/150 μl
Source: Mouse
Isotype: IgG2a
Purification Method: Caprylic acid/ammonium sulfate precipitation

GenBank Accession Number: NM_002438
GeneID (NCBI): 4360
Full Name: mannose receptor, C type 1
Calculated MW: 166 kDa
Observed MW: 170 kDa
CloneNo.: 2A6A10

Recommended Dilutions:
WB 1:1000-1:4000
IP 0.5-4.0 μg for IP and 1:200-1:1000 for WB
IHC 1:10000-1:60000

Applications

Tested Applications:
FC, IHC, IP, WB, ELISA
Cited Applications:
FC, IF, IHC, WB
Species Specificity:
human, mouse
Cited Species:
mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

CD206, also named as MMR, CLEC13D and MRC1, is a type I membrane receptor that mediates the endocytosis of glycoproteins by macrophages. CD206 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. CD206 is a 170 kDa transmembrane protein which contains 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. It is expressed on most tissue macrophages, in vitro derived dendritic cells, lymphatic and sinusoidal endothelia. This antibody recognizes the intracellular carboxy-terminal part of CD206 and MRC11.

Notable Publications

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<td>Xiudi Shi</td>
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Storage

Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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human placenta tissue were subjected to SDS PAGE followed by western blot with 60143-1-Ig CD206 antibody at dilution of 1:2000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60143-1-Ig (CD206 antibody) at dilution of 1:20000 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).

IP Result of anti-CD206 (IP: 60143-1-Ig, 5ug; Detection: 60143-1-Ig 1:300) with human placenta tissue lysate 1520ug.

1x10^6 RAW 264.7 cells were stained with 0.2ug CD206 antibody (60143-1-Ig, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1500.

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60143-1-Ig (CD206 antibody) at dilution of 1:20000 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).