

# CD206 Polyclonal antibody

Catalog Number: 18704-1-AP **389 Publications**

## Basic Information

### Catalog Number:

18704-1-AP

### Size:

700 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_002438

### GeneID (NCBI):

4360

### UNIPROT ID:

P22897

### Full Name:

mannose receptor, C type 1

### Calculated MW:

166 kDa

### Observed MW:

165-180 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:1000-1:4000

IF 1:200-1:800

## Applications

### Tested Applications:

FC, IF-P, IHC, WB, ELISA

### Cited Applications:

WB, IF, FC, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse, rabbit, pig, mussel

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

### Positive Controls:

**WB** : mouse liver tissue, human placenta tissue, human kidney tissue, rat liver tissue

**IHC** : human placenta tissue,

**IF** : mouse lung tissue,

## 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 glycoprotein 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 MRC1L1. If protein aggregation exists, for optimal WB detection with this antibody, we recommend adding DTT before boiling the sample to reduce disulfide bonds.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shu-Ling Wang	31564717	Cell Death Dis	WB,IF
Shiao Tong	36248799	Front Immunol	WB,IHC
Yi-Na Zhang	36168082	Transl Stroke Res	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

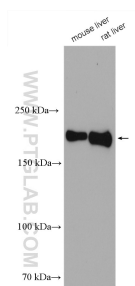
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

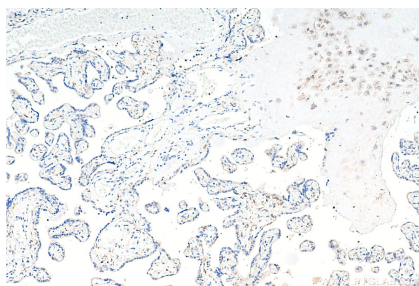
W: [ptgcn.com](http://ptgcn.com)

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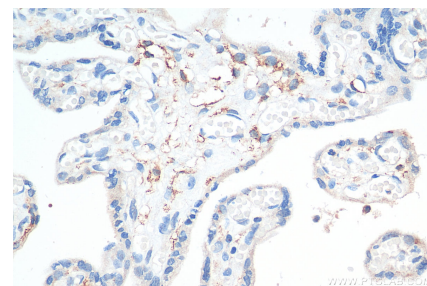
## Selected Validation Data



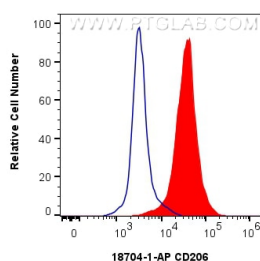
Various lysates were subjected to SDS PAGE followed by western blot with 18704-1-AP (CD206 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



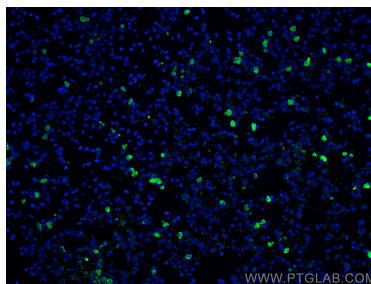
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 18704-1-AP (CD206 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



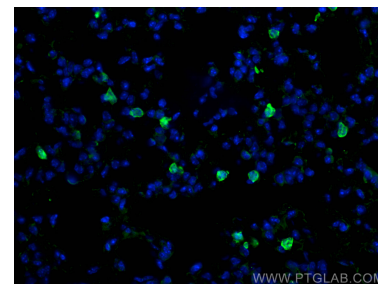
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 18704-1-AP (CD206 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  RAW 264.7 cells were intracellularly stained with 0.4  $\mu$ g Anti-Human CD206 (18704-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4  $\mu$ g Rabbit IgG control (30000-0-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse lung tissue using CD206 antibody (18704-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse lung tissue using CD206 antibody (18704-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).