

For Research Use Only

CD206 Polyclonal antibody

Catalog Number: 18704-1-AP **402 Publications**



Basic Information

Catalog Number: 18704-1-AP	GenBank Accession Number: NM_002438	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 µg/ml by Nanodrop;	GeneID (NCBI): 4360	Recommended Dilutions: WB 1:500-1:1000 IHC 1:1000-1:4000 IF 1:200-1:800
Source: Rabbit	UNIPROT ID: P22897	
Isotype: IgG	Full Name: mannose receptor, C type 1	
	Calculated MW: 166 kDa	
	Observed MW: 165-180 kDa	

Applications

Tested Applications: WB, IF, FC, IHC, ELISA	Positive Controls: WB : mouse liver tissue, human placenta tissue, human kidney tissue, rat liver tissue IHC : human placenta tissue, IF : mouse lung tissue,
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	

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

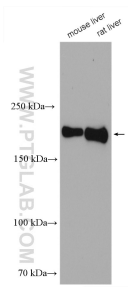
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

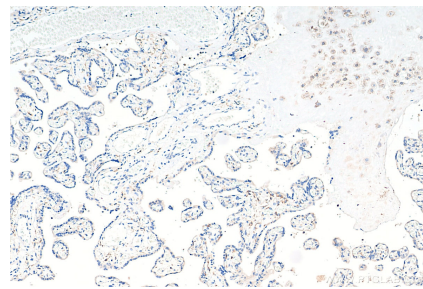
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

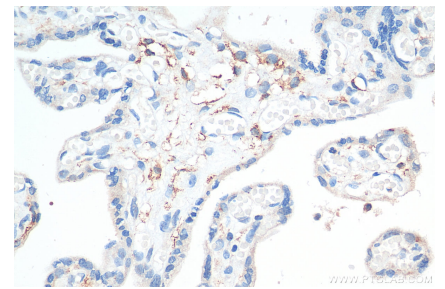
Selected Validation Data



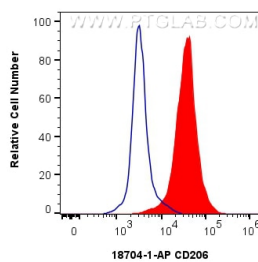
Various lysates were subjected to SDS PAGE followed by western blot with 18704-1-AP (CD206 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



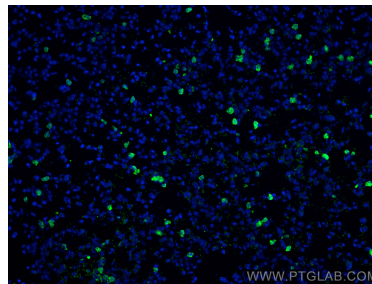
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 18704-1-AP (CD206 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



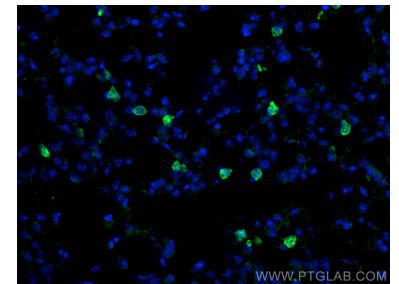
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 18704-1-AP (CD206 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 RAW 264.7 cells were intracellularly stained with 0.4 ug 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 ug 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).