For Research Use Only

# CD206 Monoclonal antibody

Catalog Number:60143-1-Ig Featured Product 206 Publications

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## Basic Information

Catalog Number:
60143-1-Ig

Size:
150ul , Concentration: 2000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG2a

GenBank Accession Number:
NM_002438

GeneID (NCBI):
4360

UNIPROT ID:
P22897

Full Name:
mannose receptor, C type 1

Calculated MW:
166 kDa

Observed MW:
170 kDa

Purification Method:
Protein A purification

CloneNo.:
2A6A10

Recommended Dilutions:
WB: 1:5000-1:50000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:10000-1:40000
IF-P: 1:200-1:800

## Applications

Tested Applications:
WB, IHC, IF-P, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human

Cited Species:
human, pig

***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 : human placenta tissue, human liver tissue

IP : human placenta tissue,

IHC : human lung cancer tissue, human liver tissue, human placenta tissue

IF-P : human lung cancer 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 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 MRC1L1.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Xinmei Huang | 34478541 | J Clin Endocrinol Metab | IHC |
| Liping Xu | 36179453 | Tissue Cell | IHC |
| C. Zhao | 34647005 | Mater Today Bio | IF |

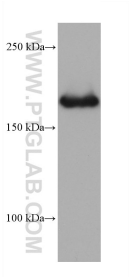
## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

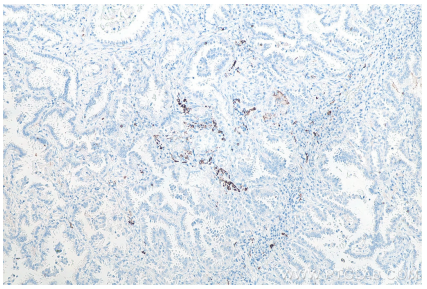
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

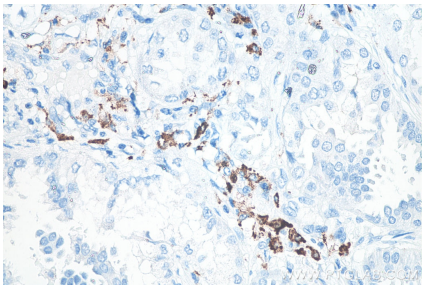
## Selected Validation Data



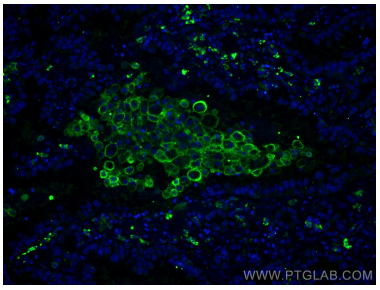

human placenta tissue was subjected to SDS PAGE followed by western blot with 60143-1-Ig (CD206 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



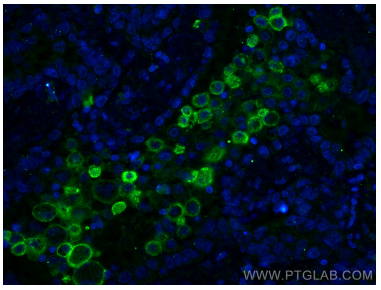
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60143-1-Ig (CD206 antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 retrieval with Tris-EDTA buffer (pH 9.0).




Immunofluorescent analysis of (4% PFA) fixed human lung cancer tissue using CD206 antibody (60143-1-Ig, Clone: 2A6A10 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

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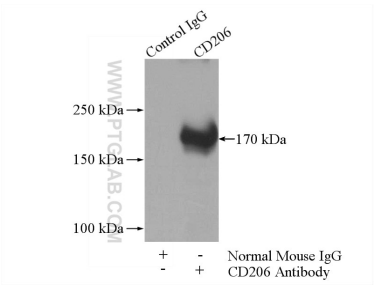


IP result of anti-CD206 (IP:60143-1-Ig, 5ug; Detection:60143-1-Ig 1:300) with human placenta tissue lysate 1520ug.