

For Research Use Only

# Cd68 Polyclonal antibody

Catalog Number: 28058-1-AP **184 Publications**



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>28058-1-AP                          | <b>GenBank Accession Number:</b><br>NM_001291058 | <b>Purification Method:</b><br>Antigen affinity purification                          |
| <b>Size:</b><br>150ul , Concentration: 600 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>12514                   | <b>Recommended Dilutions:</b><br>WB 1:600-1:2000<br>IHC 1:500-1:2000<br>IF 1:50-1:500 |
| <b>Source:</b><br>Rabbit                                      | <b>UNIPROT ID:</b><br>P31996                     |   |
| <b>Isotype:</b><br>IgG  | <b>Full Name:</b><br>CD68 antigen                |   |
| <b>Immunogen Catalog Number:</b><br>AG27827                   | <b>Calculated MW:</b><br>35 kDa                  |   |
|   | <b>Observed MW:</b><br>100 kDa                   |   |

## Applications

|  |  |
|--|--|
| <b>Tested Applications:</b><br>WB, IF, FC, IHC, ELISA  | <b>Positive Controls:</b><br>WB : RAW 264.7 cells, mouse spleen tissue<br>IHC : mouse spleen tissue, mouse liver tissue<br>IF : mouse spleen tissue, |
| <b>Cited Applications:</b><br>WB, IF, FC, IHC  |  |
| <b>Species Specificity:</b><br>mouse   |  |
| <b>Cited Species:</b><br>rat, mouse, pig, canine   |  |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |  |

## Background Information

Mouse CD68 (also known as macrophage marker) is a type I transmembrane glycoprotein that is highly and specifically expressed by mouse tissue macrophages, and to a lesser extent by dendritic cells. It belongs to the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family and primarily localizes to lysosomes and endosomes with a smaller fraction circulating to the cell surface. CD68 is also a member of the scavenger receptor family. It may play a role in phagocytic activities of tissue macrophages.

## Notable Publications

| Author       | Pubmed ID | Journal      | Application |
|--------------|-----------|--------------|-------------|
| Aibin Liu    | 32991738  | J Pathol     | IHC         |
| Guangping Lu | 36235670  | Nutrients    | IF          |
| Wei Liu      | 34562326  | J Pineal Res | IF          |

## Storage

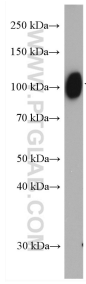
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

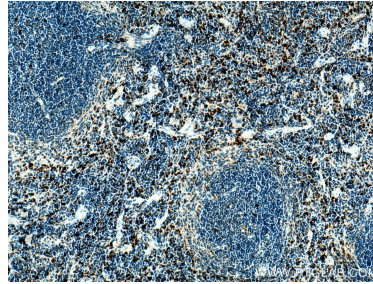
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

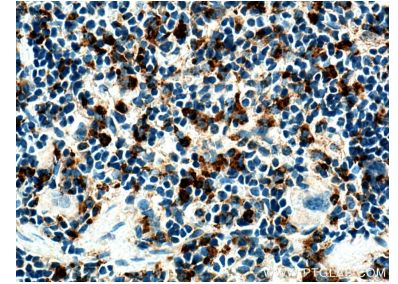
## Selected Validation Data



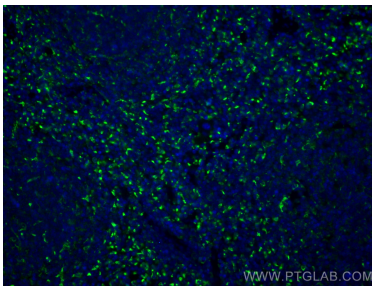
RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 28058-1-AP (Cd68 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



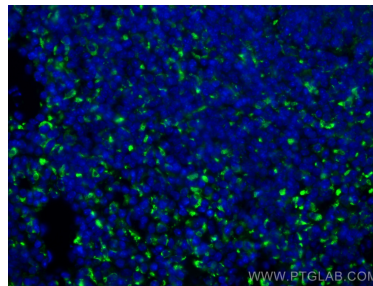
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 28058-1-AP (Cd68 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



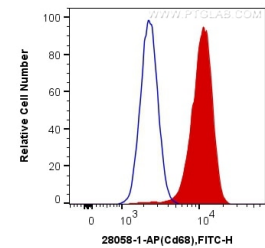
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 28058-1-AP (Cd68 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using Cd68 antibody (28058-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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$1 \times 10^6$  RAW 264.7 cells were intracellularly stained with 0.4 ug Anti-Mouse Cd68 (28058-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).