

For Research Use Only

# CD68 Recombinant antibody

Catalog Number: 83014-5-RR



## Basic Information

Catalog Number:

83014-5-RR

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0787

GenBank Accession Number:

NM\_001291058.1

GeneID (NCBI):

12514

UNIPROT ID:

P31996-1

Full Name:

CD68 antigen

Calculated MW:

35 kDa

Observed MW:

100-120 kDa

Purification Method:

Protein A purification

CloneNo.:

230504G10

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF-P 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Species Specificity:

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**

Positive Controls:

WB : RAW 264.7 cells, J774A.1 cells, NR8383 cells

IHC : mouse spleen tissue, mouse liver tissue, rat  
small intestine tissue

IF-P : mouse spleen tissue, rat small intestine tissue

## Background Information

Mouse CD68 (also known as macrophage) 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.

## 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:

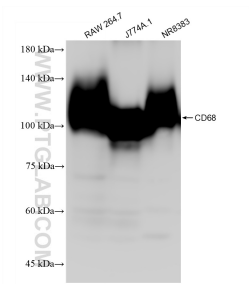
T: 4006900926

E: Proteintech-CN@ptglab.com

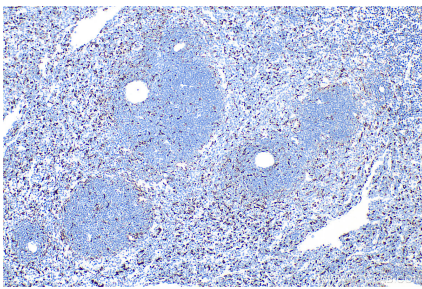
W: ptgcn.com

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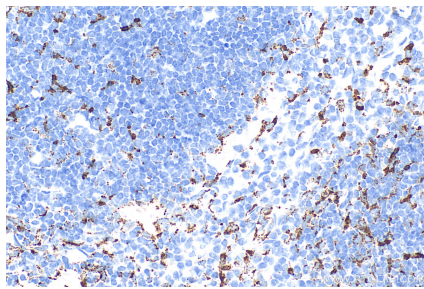
Selected Validation Data



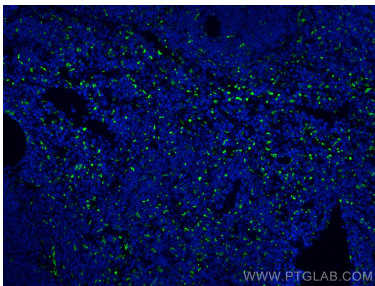
Various lysates were subjected to SDS PAGE followed by western blot with 83014-5-RR (CD68 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



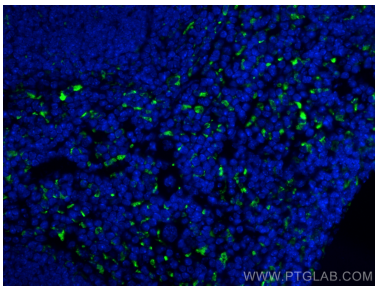
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83014-5-RR (CD68 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



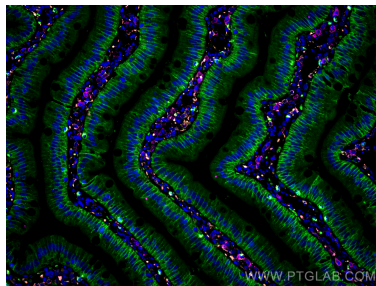
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83014-5-RR (CD68 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



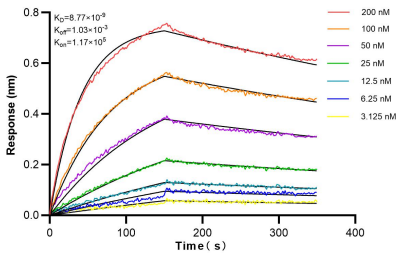
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD68 antibody (83014-5-RR, Clone: 230504G10) at dilution of 1:200 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD68 antibody (83014-5-RR, Clone: 230504G10) at dilution of 1:200 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat small intestine tissue using CD68 antibody (83014-5-RR, Clone: 230504G10) at dilution of 1:200 and Rhodamine (TRITC)-conjugated Goat Anti-Rabbit IgG(H+L) (SA00007-2), CD20 antibody (31909-1-AP, Magenta), EPCAM/CD326 antibody (32189-1-AP, green). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83014-5-RR against Mouse CD68 were performed. The affinity constant is 8.77 nM.