

For Research Use Only

# CD68 Recombinant antibody

Catalog Number:83014-5-RR



## Basic Information

<b>Catalog Number:</b> 83014-5-RR	<b>GenBank Accession Number:</b> NM_001291058.1	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 12514	<b>CloneNo.:</b> 230504G10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P31996-1	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000 IF-P 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> CD68 antigen	
<b>Immunogen Catalog Number:</b> EG0787	<b>Calculated MW:</b> 35 kDa	
	<b>Observed MW:</b> 100-120 kDa	

## 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 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.

## 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

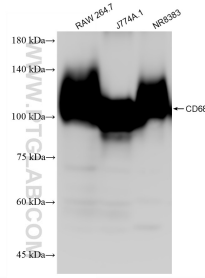
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

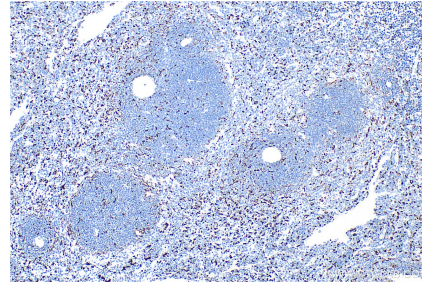
E: proteintech@ptglab.com  
W: ptglab.com

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

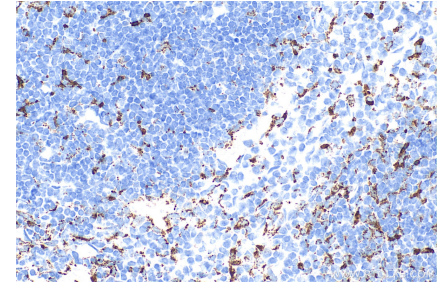
## Selected Validation Data



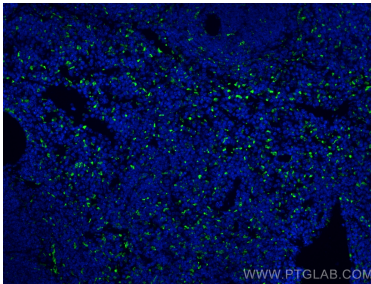
Various lysates were subjected to SDS PAGE followed by western blot with 83014-5-RR (CD68 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



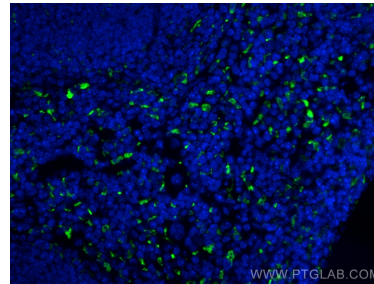
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83014-5-RR (CD68 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



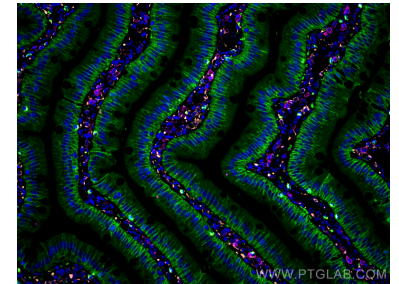
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83014-5-RR (CD68 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



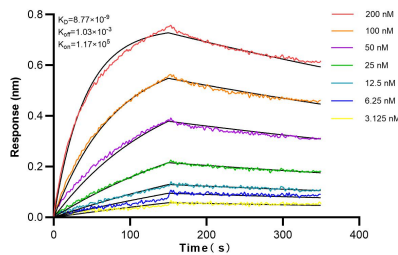
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD68 antibody (83014-5-RR, Clone: 230504G10) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer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