

For Research Use Only

# CD68 Monoclonal antibody

Catalog Number: 66231-2-Ig **65 Publications**



## Basic Information

<b>Catalog Number:</b> 66231-2-Ig	<b>GenBank Accession Number:</b> BC015557	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 968	<b>CloneNo.:</b> 3A9A7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P34810	<b>Recommended Dilutions:</b> IHC 1:1000-1:6000 IF-P 1:3000-1:12000
<b>Isotype:</b> IgG1	<b>Full Name:</b> CD68 molecule	
<b>Immunogen Catalog Number:</b> AG22815	<b>Calculated MW:</b> 37 kDa	

## Applications

**Tested Applications:**  
IHC, IF-P, ELISA

**Cited Applications:**  
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:**

**IHC :** human tonsillitis tissue, human appendicitis tissue, human colon cancer tissue, human liver cancer tissue, human lung cancer tissue, human urothelial carcinoma tissue

**IF-P :** human tonsillitis tissue,

## Background Information

CD68 is a type I transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. 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
Yu Huang	34713723	J Am Heart Assoc	
Yourong Jiang	36389736	Front Immunol	IF
Xinyi Zhang	36499018	Int J Mol Sci	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**

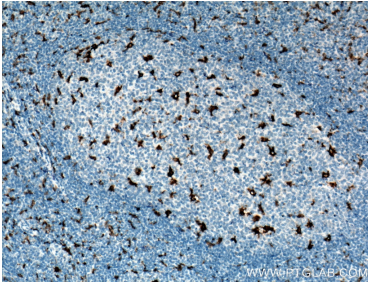
For technical support and original validation data for this product please contact:

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

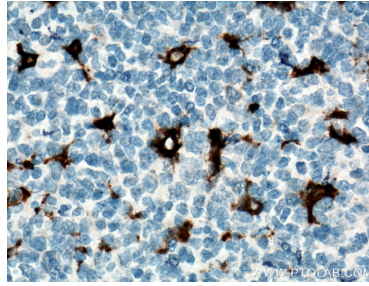
E: proteintech@ptglab.com  
W: ptglab.com

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

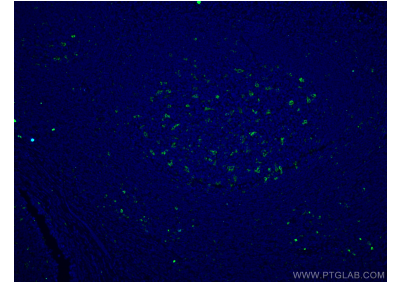
## Selected Validation Data



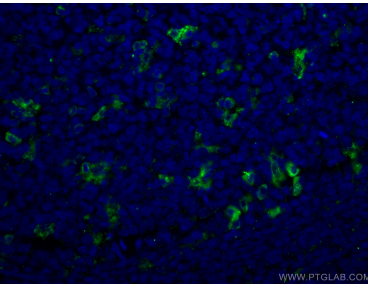
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66231-2-Ig (CD68 antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



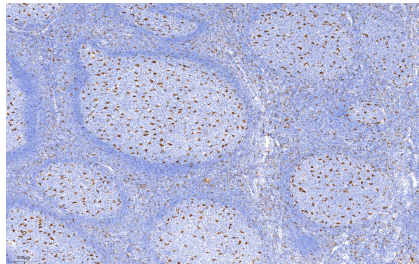
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66231-2-Ig (CD68 antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD68 antibody (66231-2-Ig, Clone: 3A9A7) at dilution of 1:6000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD68 antibody (66231-2-Ig, Clone: 3A9A7) at dilution of 1:6000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66231-2-Ig (CD68 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).