

For Research Use Only

# CD68 Monoclonal antibody

Catalog Number: 66231-2-Ig **89 Publications**



## Basic Information

Catalog Number: 66231-2-Ig	GenBank Accession Number: BC015557	Purification Method: Protein G purification
Source: Mouse	GeneID (NCBI): 968	CloneNo.: 3A9A7
Isotype: IgG1	UNIPROT ID: P34810	Recommended Dilutions: IHC: 1:1000-1:6000 IF-P: 1:3000-1:12000
Immunogen Catalog Number: AG22815	Full Name: CD68 molecule	
	Calculated MW: 37 kDa	

## Applications

Tested Applications: IHC, IF-P, ELISA	Positive Controls:
Cited Applications: IHC, IF	IHC : human tonsillitis tissue, human appendicitis tissue, human colon cancer tissue, human liver cancer tissue, human lung cancer tissue, human urothelial carcinoma tissue
Species Specificity: human	IF-P : human tonsillitis tissue,
Cited Species: human, pig	
<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

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
Saisai Wang	31598397	Am J Cancer Res	IHC
Yu Huang	34713723	J Am Heart Assoc	
Yourong Jiang	36389736	Front Immunol	IF

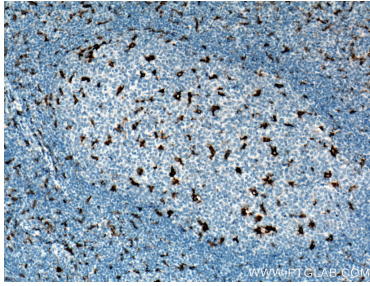
## Storage

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

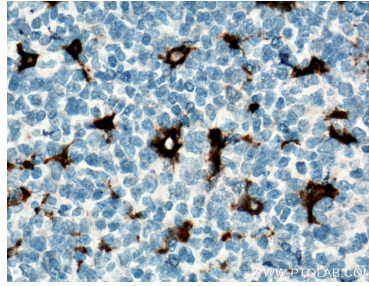
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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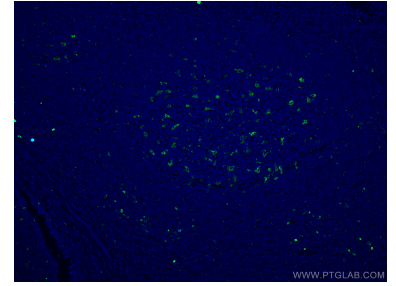
## Selected Validation Data



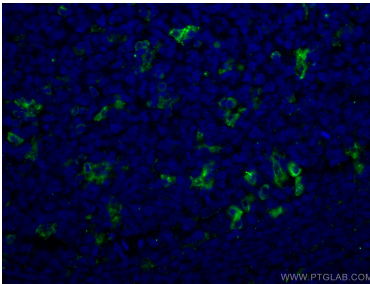
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66231-2-Ig (CD68 antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



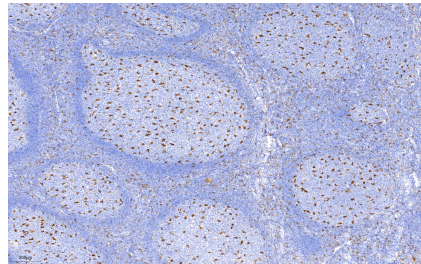
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66231-2-Ig (CD68 antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).