For Research Use Only

CD68 Polyclonal antibody

Catalog Number:28058-1-AP 286 Publications

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Basic Information

Catalog Number:
28058-1-AP

Concentration:
800 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG27827

GenBank Accession Number:
NM_001291058

GeneID (NCBI):
12514

UNIPROT ID:
P31996

Full Name:
CD68 antigen

Calculated MW:
35 kDa

Observed MW:
100 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:600-1:2000
IHC: 1:1000-1:4000
IF-P: 1:50-1:500

Applications

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

Cited Applications:
WB, IHC, IF

Species Specificity:
mouse, rat

Cited Species:
mouse, rat, pig, canine

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, mouse spleen tissue, NR8383 cells

IHC : mouse spleen tissue, mouse liver tissue

IF-P : mouse spleen tissue,

Background Information

Mouse CD68 (also known as macrosialin) 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

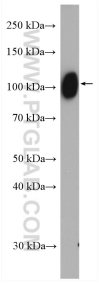
Author	Pubmed ID	Journal	Application
Aibin Liu	32991738	J Pathol	IHC
Guangping Lu	36235670	Nutrients	IF
Wei Liu	34562326	J Pineal Res	IF

Storage

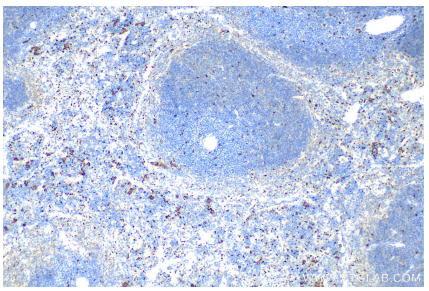
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

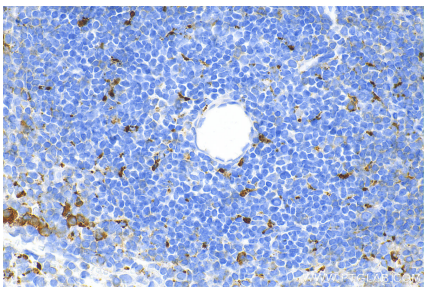
Selected Validation Data



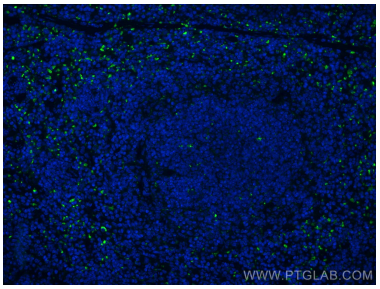
RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 28058-1-AP (CD68 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



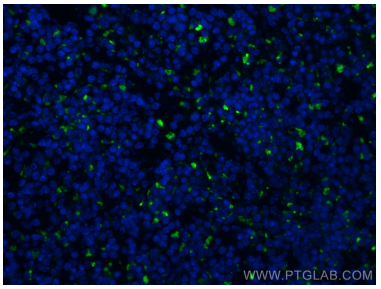
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 28058-1-AP (CD68 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 28058-1-AP (CD68 antibody) at dilution of 1:2000 (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 (28058-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). 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 (28058-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).