

For Research Use Only

CD68 Polyclonal antibody

Catalog Number: 25747-1-AP 101 Publications



Basic Information

Catalog Number: 25747-1-AP	GenBank Accession Number: BC015557	Purification Method: Antigen affinity purification
Concentration: 600 ug/ml	GeneID (NCBI): 968	Recommended Dilutions: WB: 1:1000-1:8000 IHC: 1:2000-1:8000 IF-P: 1:50-1:500
Source: Rabbit	UNIPROT ID: P34810	
Isotype: IgG	Full Name: CD68 molecule	
Immunogen Catalog Number: AG22815	Calculated MW: 37 kDa Observed MW: 60-70 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls: WB : THP-1 cells, U-937 cells
Cited Applications: WB, IHC, IF	IHC : human liver tissue, human tonsillitis tissue
Species Specificity: human	IF-P : human colon tissue, human tonsillitis tissue, human appendicitis tissue
Cited Species: human, 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	

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. The apparent molecular weight of CD68 is larger than calculated molecular weight due to post-translation modification.

Notable Publications

Author	Pubmed ID	Journal	Application
Shu-Ling Wang	31564717	Cell Death Dis	WB,IF
Shaolong Li	30264546	Cancer Sci	IHC,IF
Biao Zhou	30253896	J Vasc Surg	IF

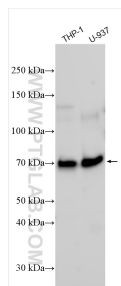
Storage

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

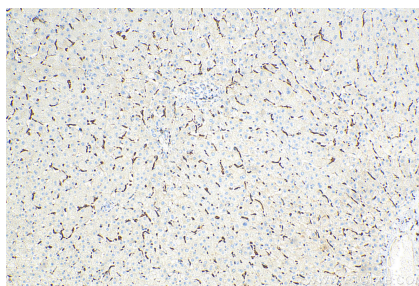
For technical support and original validation data for this product please contact:
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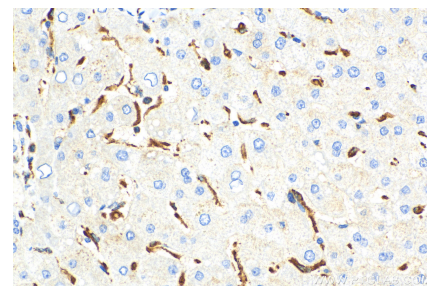
Selected Validation Data



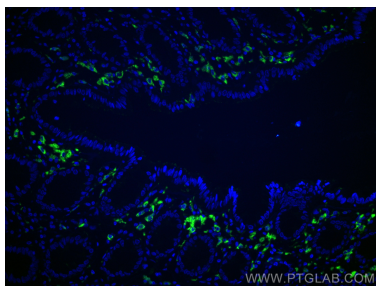
Various lysates were subjected to SDS PAGE followed by western blot with 25747-1-AP (CD68 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



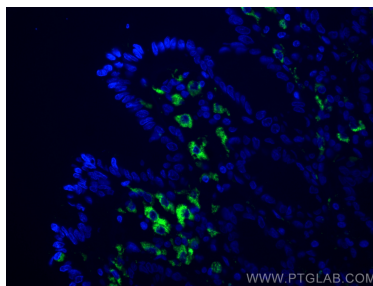
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 25747-1-AP (CD68 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



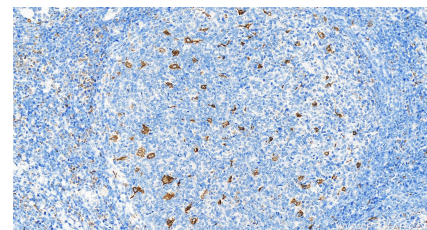
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 25747-1-AP (CD68 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human colon tissue using CD68 antibody (25747-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human colon tissue using CD68 antibody (25747-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 25747-1-AP (CD68 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).