

For Research Use Only

Mouse CD163 Recombinant antibody, PBS Only

Catalog Number: 83285-4-PBS



Basic Information

Catalog Number: 83285-4-PBS	GenBank Accession Number: NM_053094.2	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 93671	CloneNo.: 240233A3
Source: Rabbit	UNIPROT ID: Q2VLH6-1	
Isotype: IgG	Full Name: CD163 antigen	
Immunogen Catalog Number: EG0794	Calculated MW: 121 kDa	
	Observed MW: 160-170 kDa	

Applications

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

Species Specificity:
mouse, rat

Background Information

CD163, also known as M130, is a membrane glycoprotein that belongs to the scavenger receptor superfamily (PMID: 8370408). It is an acute phase-regulated and signal-inducing macrophage protein expressed exclusively in monocytes and tissue macrophages (PMID: 11196644). CD163 mediates endocytosis of haptoglobin-haemoglobin complexes (PMID: 11196644). The uptake of haptoglobin by macrophages contributes to the recycling of iron and also to the inflammatory response (PMID: 22900885). Soluble CD163 (sCD163), as a result of ectodomain shedding during inflammatory activation of macrophages, circulates in blood and has been suggested as a plasma/serum marker for macrophage activity (PMID: 12570164).

Storage

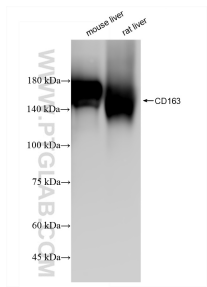
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

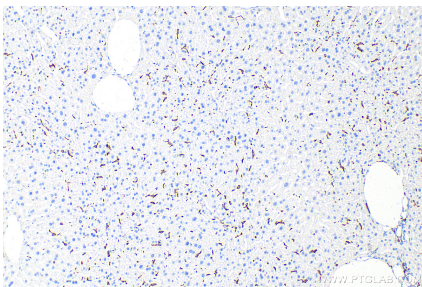
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

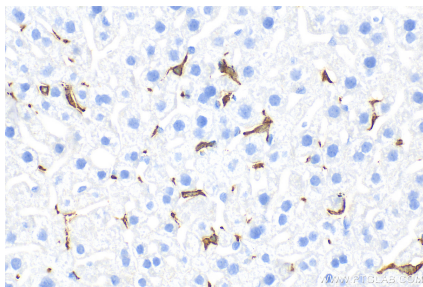
Selected Validation Data



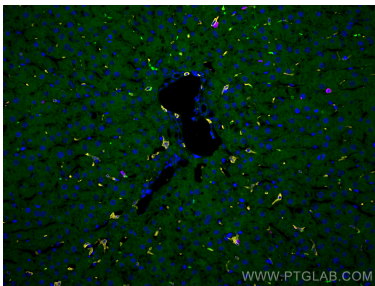
Various lysates were subjected to SDS PAGE followed by western blot with 83285-4-RR (CD163 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83285-4-PBS in a different storage buffer formulation.



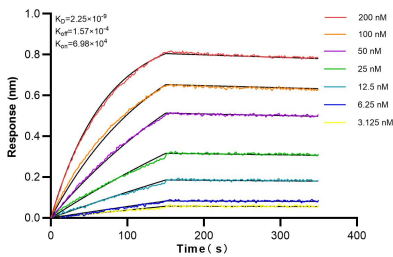
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 83285-4-RR (CD163 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83285-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 83285-4-RR (CD163 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83285-4-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat liver tissue using CD163 antibody (83285-4-RR, Clone: 240233A3) 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). This data was developed using the same antibody clone with 83285-4-PBS in a



Biolayer interferometry (BLI) kinetic assays of 83285-4-RR against Mouse CD163 were performed. The affinity constant is 2.25 nM.