

For Research Use Only

CD163 Recombinant antibody

Catalog Number: 83285-4-RR



Basic Information

Catalog Number:

83285-4-RR

Size:

100ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_053094.2

GeneID (NCBI):

93671

UNIPROT ID:

Q2VLH6-1

Full Name:

CD163 antigen

Calculated MW:

121 kDa

Observed MW:

160-170 kDa

Purification Method:

Protein A purification

CloneNo.:

240233A3

Recommended Dilutions:

WB 1:2000-1:12000

IHC 1:2000-1:8000

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Species Specificity:

mouse, rat

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 : mouse liver tissue, mouse lung tissue, rat spleen tissue, rat liver tissue

IHC : mouse liver tissue, mouse spleen tissue

IF-P : mouse small intestine tissue, rat liver tissue

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 -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

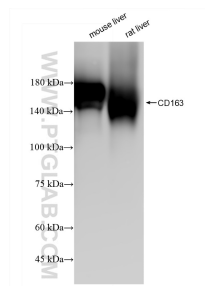
For technical support and original validation data for this product please contact:

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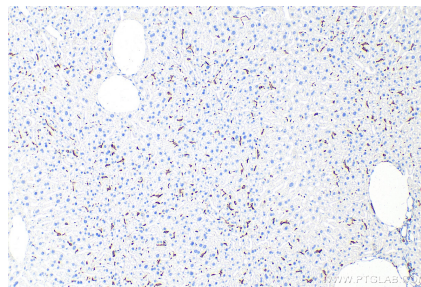
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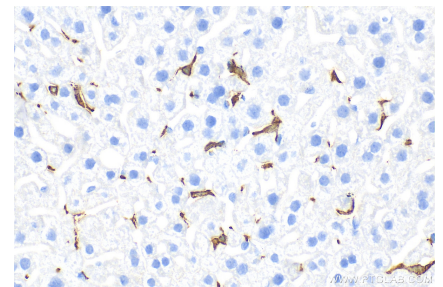
Selected Validation Data



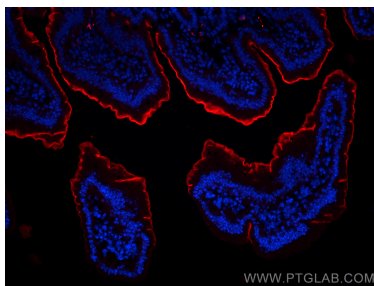
Various lysates were subjected to SDS PAGE followed by western blot with 83285-4-RR (CD163 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



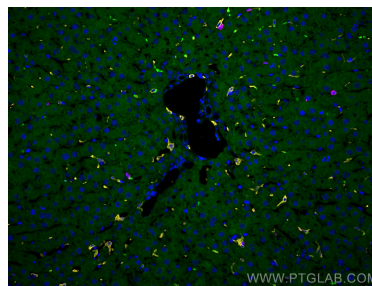
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 83285-4-RR (CD163 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



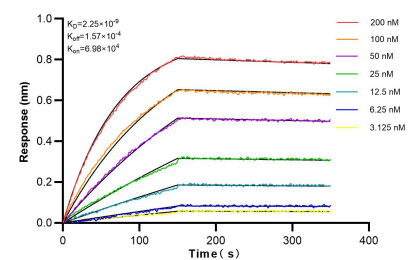
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 83285-4-RR (CD163 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse small intestine tissue using CD163 antibody (83285-4-RR, Clone: 240233A3) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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