

For Research Use Only

CD163 Recombinant antibody

Catalog Number: 83285-4-RR



Basic Information

Catalog Number: 83285-4-RR	GenBank Accession Number: NM_053094.2	Purification Method: Protein A purification
Size: 600 µg/ml	GeneID (NCBI): 93671	CloneNo.: 240233A3
Source: Rabbit	UNIPROT ID: Q2VLH6-1	Recommended Dilutions: WB 1:2000-1:12000 IHC 1:500-1:2000
Isotype: IgG	Full Name: CD163 antigen	
	Calculated MW: 121 kDa	
	Observed MW: 160-170 kDa	

Applications

Tested Applications:
WB, IHC, 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 spleen 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

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

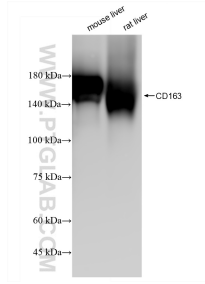
T: 4006900926

E: Proteintech-CN@ptglab.com

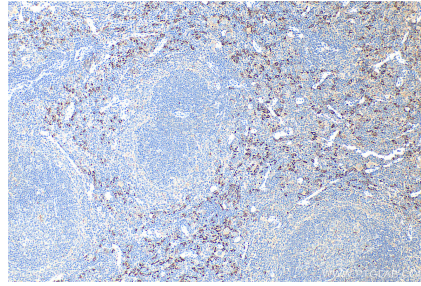
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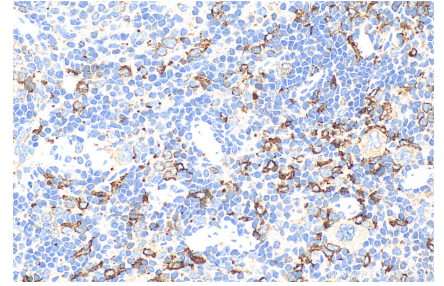
Selected Validation Data



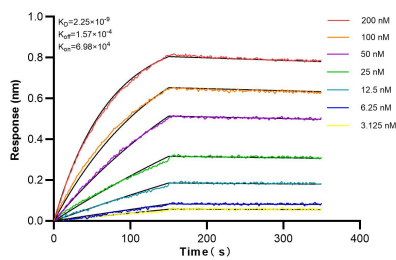
Various lysates were subjected to SDS PAGE followed by western blot with 83285-4-RR (CD163 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83285-4-RR (CD163 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83285-4-RR (CD163 antibody) at dilution of 1:1000 (under 40x lens). 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.