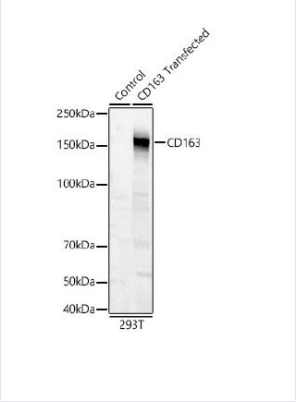
CD163 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD163, Polyclonal Antibody
Full Product Name	CD163 Rabbit pAb
Product Gene Name	anti-CD163 antibody
Product Synonym Names	M130; MM130; SCARI1
Immunogen Sequence	DTLWQCPSSP WEKRLASPSE ETWITCDNKI RLQEGPTSCS GRVEIWHGGS WGTVCDDSWD LDDAQVVCQQ LGCGPALKAF KEAEFGQGTG PIWLNEVKCK G
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles. Ship: Ice Pack
Molecular Weight	125,451 Da
OMIM	605545
3D Structure	ModBase 3D Structure for Q86VB7
Positive Samples	293T
Cellular Location	Cell membrane, Secreted, Single-pass type I membrane protein
Research Area	Immunology Inflammation, CDs, Cell Intrinsic Innate Immunity Signaling Pathway, Cardiovascular
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 900-1000 of human CD163 (NP_004235.4).
Product Categories/Family for anti-CD163 antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD163 antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-CD163 antibody	WB: 1:500-1:1000 IF/ICC: 1:50-1:200
Related Product Information for anti-CD163 antibody	The protein encoded by this gene is a member of the scavenger receptor cysteine-rich (SRCR) superfamily, and is exclusively expressed in monocytes and macrophages. It functions as an acute phase-regulated receptor involved in the clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages, and may thereby protect tissues from free hemoglobin-mediated oxidative damage. This protein may also function as an innate immune sensor for bacteria and inducer of local inflammation. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Other Notes	Small volumes of anti-CD163 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD163 purchase	MBS9146373 is an antibody targeting CD163. Also known as CD163 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CD163 antibody
Western blot analysis of 293T, using CD163 antibody (MBS9146373) at 1:700 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD163. It may not necessarily be applicable to this product.

NCBI GI #	344179110
NCBI GeneID	9332
NCBI Accession #	NP_004235.4
UniProt Primary Accession #	Q86VB7
UniProt Secondary Accession #	Q07898; Q07899; Q07900; Q07901; Q2VLH7; C9JIG2
UniProt Related Accession #	Q86VB7
GenBank Nucleotide #	NM_004244.5
NCBI Official Full Name	scavenger receptor cysteine-rich type 1 protein M130 isoform a
NCBI Official Synonym Full Names	CD163 molecule
NCBI Official Symbol	CD163
NCBI Official Synonym Symbols	M130; MM130
UniProt Protein Name	Scavenger receptor cysteine-rich type 1 protein M130
UniProt Synonym Protein Names	Hemoglobin scavenger receptor
Protein Family	Scavenger receptor cysteine-rich type 1 protein
UniProt Gene Name	CD163
UniProt Synonym Gene Names	M130; sCD163
UniProt Entry Name	C163A_HUMAN
NCBI Protein Information	scavenger receptor cysteine-rich type 1 protein M130; hemoglobin scavenger receptor; macrophage-associated antigen

UniProt Comments for CD163	CD163: Acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage. May play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. Binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. Exhibits a higher affinity for complexes of hemoglobin and multimeric haptoglobin of HP*1F phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP*1S phenotype. Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1. Isoform 3 exhibits the higher capacity for ligand endocytosis and the more pronounced surface expression when expressed in cells. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 12p13.3 Cellular Component: integral to plasma membrane; plasma membrane; extracellular region Molecular Function: protein binding; scavenger receptor activity Biological Process: receptor-mediated endocytosis; acute-phase response
Research Articles on CD163	**1.** sCD163 correlates with CD163 mRNA expression in subcutaneous and visceral adipose tissue and with whole-body insulin sensitivity in the steady-state condition.
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