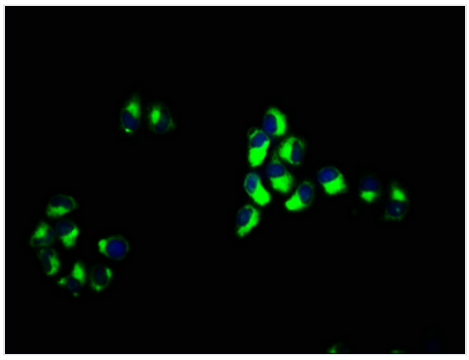
CD163 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD163, Polyclonal Antibody
Full Product Name	CD163 Antibody
Product Gene Name	anti-CD163 antibody
Product Synonym Names	Scavenger receptor cysteine-rich type 1 protein M130; Hemoglobin scavenger receptor; CD antigen CD163; [Cleaved into: Soluble CD163 (sCD163)]; CD163; M130
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95% Protein G Purified
Preparation and Storage	Upon receipt, store at-20 degree C or-80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: CD163 (MBS7114174) HRP Conjugated Antibody: CD163 (MBS7114175)
Matching Pairs	Unconjugated Antibody: CD163 (MBS7114174) FITC Conjugated Antibody: CD163 (MBS7114176)
Matching Pairs	Unconjugated Antibody: CD163 (MBS7114174) Biotin Conjugated Antibody: CD163 (MBS7114177)
Molecular Weight	125,982 Da
3D Structure	ModBase 3D Structure for Q86VB7
Immunogen Species	Human
Immunogen	Recombinant Human Scavenger receptor cysteine-rich type 1 protein M130 protein (801-940AA)
Conjugate	Non-Conjugated
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-CD163 antibody	Immunology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD163 antibody	ELISA (EIA), Immunofluorescence (IF)
Application Notes for anti-CD163 antibody	IF: 1:50-1:200
Related Product Information for anti-CD163 antibody	MBS7114174 is an antibody targeting CD163. Also known as CD163 Antibody. Reactive in Human. Host: Rabbit.

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.



Immunofluorescence (IF) of anti-CD163 antibody
Immunofluorescence staining of Hela cells with CSB-PA801238LA01HU at 1:66, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4 degree C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).

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; SCARI1
UniProt Protein Name	Scavenger receptor cysteine-rich type 1 protein M130
UniProt Synonym Protein Names	Hemoglobin scavenger receptor; CD_antigen: CD163
Protein Family	Scavenger receptor cysteine-rich type 1 protein
UniProt Gene Name	CD163
UniProt Synonym Gene Names	M130; sCD163
NCBI Protein Information	scavenger receptor cysteine-rich type 1 protein M130
NCBI Summary for CD163	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. [provided by RefSeq, Aug 2011]

UniProt Comments for 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.After shedding, the soluble form (sCD163) may play an anti-inflammatory role, and may be a valuable diagnostic parameter for monitoring macrophage activation in inflammatory conditions.MiscellaneousIntravenous lipopolysaccharide (LPS) produces a rapid rise of sCD163 in plasma of patient as it induces metalloproteinase-mediated shedding from monocytes surface. Long-term LPS infusion finally increases expression of the membrane-bound form on circulating monocytes.The soluble form (sCD163) in plasma is a novel parameter in diseases affecting macrophage function and monocyte/macrophage load in the body. The concentration of sCD163 is probably reflecting the number of macrophages of the 'alternative macrophage activation' phenotype with a high CD163 expression playing a major role in dampening the inflammatory response and scavenging components of damaged cells. This has initiated a number of clinical studies for evaluation of sCD163 as a disease marker in inflammatory conditions e.g. infection, autoimmune disease, transplantation, atherosclerosis and cancer.CautionIt is uncertain whether Met-1 or Met-6 is the initiator.
Research Articles on CD163	**1.** high plasma levels of sCD163 is associated with measles virus infection.
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