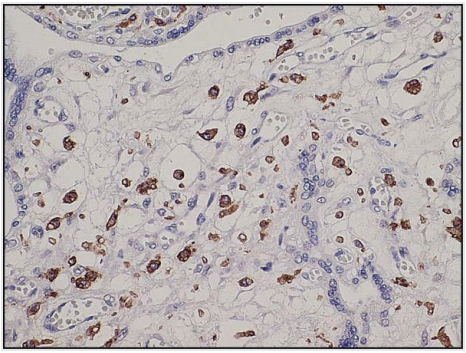
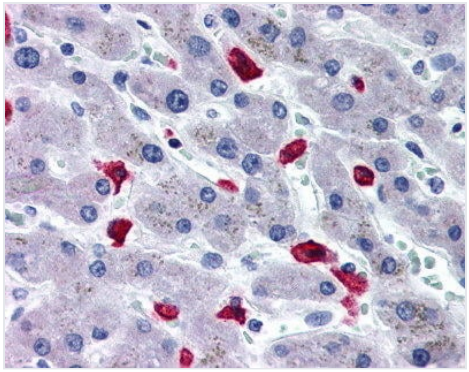
CD163 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD163, Polyclonal Antibody
Full Product Name	CD163, NT (CD163 Antigen, Hemoglobin Scavenger Receptor, M130, M130 Antigen Precursor, Macrophage-associated Antigen, MM130, Scavenger Receptor Cysteine-rich Type 1 Protein M130)
Product Gene Name	anti-CD163 antibody
Product Synonym Names	Anti -CD163, NT (CD163 Antigen, Hemoglobin Scavenger Receptor, M130, M130 Antigen Precursor, Macrophage-associated Antigen, MM130, Scavenger Receptor Cysteine-rich Type 1 Protein M130)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in 20mM Tris-HCl, pH 8.0, 20mg/ml BSA, 0.05% sodium azide.
Purity/Purification	Purified Purified
Specificity	Recognizes human CD163.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	125,451 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (7623412..7656414, complement). Location: 12p13.3
OMIM	605545
3D Structure	ModBase 3D Structure for Q86VB7
Immunogen	Synthetic peptide corresponding to human CD163 at N-terminal.
Product Categories/Family for anti-CD163 antibody	Antibodies; Abs to CD Markers
Applications Tested/Suitable for anti-CD163 antibody	Immunohistochemistry (IHC)
Application Notes for anti-CD163 antibody	Suitable for use in Immunohistochemistry. Dilution: Immunohistochemistry (Formalin-fixed, paraffin-embedded): 20ug/ml
Related Product Information for anti-CD163 antibody	CD163 antigen is a type I membrane protein also known as M130 antigen, Ber-Mac3, Ki-M8 or SM4. CD163 is restricted in its expression to the monocytic/macrophage lineage. It is present on all circulating monocytes and most tissue macrophages except those found in the mantle zone and germinal centers of lymphoid follicles, interdigitating reticulum cells and Langerhan's cells.
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	MBS6000783 is an antibody targeting CD163. Also known as CD163, NT (CD163 Antigen, Hemoglobin Scavenger Receptor, M130, M130 Antigen Precursor, Macrophage-associated Antigen, MM130, Scavenger Receptor Cysteine-rich Type 1 Protein M130). Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-CD163 antibody
Formalin-fixed and paraffin-embedded human placenta (4 microns) stained with CD163 antibody shows strong positive cytoplasmic immunostaining of monocytes and macrophages.



Immunohistochemistry (IHC) of anti-CD163 antibody
Human Liver (formalin-fixed, paraffin-embedded) stained with CD163 antibody at 20ug/ml followed by biotinylated goat rabbit IgG secondary antibody alkaline phosphatase-streptavidin and chromogen.

ADDITIONAL DETAILS

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

NCBI GI #	5107945
NCBI GeneID	9332
NCBI Accession #	CAB45233.1
UniProt Primary Accession #	Q86VB7
UniProt Secondary Accession #	Q07898; Q07899; Q07900; Q07901; Q2VLH7; C9JIG2
UniProt Related Accession #	Q86VB7
NCBI Official Full Name	CD163
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
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	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.** analysis of the contact region between CD163 and its high affinity ligand Hp-Hb reveals a mechanism of Ca2+-dependent coupling and uncoupling of ligand
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