

**CD163 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7330a****Specification****CD163 Antibody (N-term) Blocking Peptide -  
Product Information**Primary Accession [Q86VB7](#)**CD163 Antibody (N-term) Blocking Peptide -  
Additional Information****Gene ID** 9332**Other Names**Scavenger receptor cysteine-rich type 1  
protein M130, Hemoglobin scavenger  
receptor, CD163, Soluble CD163, sCD163,  
CD163, M130**Target/Specificity**

The synthetic peptide sequence used to  
generate the antibody <a  
href=/products/AP7330a>AP7330a</a>  
was selected from the N-term region of  
human CD163. A 10 to 100 fold molar  
excess to antibody is recommended.  
Precise conditions should be optimized for a  
particular assay.

**Format**Peptides are lyophilized in a solid powder  
format. Peptides can be reconstituted in  
solution using the appropriate buffer as  
needed.**Storage**Maintain refrigerated at 2-8°C for up to 6  
months. For long term storage store at  
-20°C.**Precautions**This product is for research use only. Not  
for use in diagnostic or therapeutic  
procedures.**CD163 Antibody (N-term) Blocking Peptide -  
Protein Information****Name** CD163**CD163 Antibody (N-term) Blocking Peptide  
- Background**

CD163 is an 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. The protein may play a role in the  
uptake and recycling of iron, via endocytosis of  
hemoglobin/haptoglobin and subsequent  
breakdown of heme. It binds  
hemoglobin/haptoglobin complexes in a  
calcium-dependent and pH-dependent manner.  
And it 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. It also induces a cascade of  
intracellular signals that involves tyrosine  
kinase-dependent calcium mobilization, inositol  
triphosphate production and secretion of IL6  
and CSF1.

**CD163 Antibody (N-term) Blocking Peptide  
- References**

Buehler,P.W., Abraham,B. Blood 113 (11),  
2578-2586 (2009)Fabriek,B.O., van Bruggen,R.  
Blood 113 (4), 887-892 (2009)Strauss,M. and  
Levy,A.P. Mol. Cell. Biochem. 317 (1-2),  
131-135 (2008)Groselj-Grenc,M., Ihan,A.  
Mediators Inflamm. 2008, 202646 (2008)

**Synonyms** M130**Function**

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.

**Cellular Location**

[Soluble CD163]: Secreted

**Tissue Location**

Expressed in monocytes and mature macrophages such as Kupffer cells in the liver, red pulp macrophages in the spleen, cortical macrophages in the thymus, resident bone marrow macrophages and meningeal macrophages of the central nervous system. Expressed also in blood. Isoform 1 is the lowest abundant in the blood. Isoform 2 is the lowest abundant in the liver and the spleen. Isoform 3 is the predominant isoform detected in the blood

**CD163 Antibody (N-term) Blocking Peptide  
- Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)