

## Product datasheet

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# ARG59295 anti-CD163 antibody

Package: 100 μl Store at: -20°C

### Summary

Product Description Rabbit Polyclonal antibody recognizes CD163

Tested Reactivity Hu

Tested Application IHC-P, IP, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name CD163

Species Human

Immunogen Synthetic peptide derived from Human CD163.

Conjugation Un-conjugated

Alternate Names sCD163; M130; Scavenger receptor cysteine-rich type 1 protein M130; MM130; CD antigen CD163;

Hemoglobin scavenger receptor

### **Application Instructions**

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	IP	1:30
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 160 kDa	

### **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol CD163

Gene Full Name CD163 molecule

Background CD163 protein 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]

Function 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. [UniProt]

Highlight Related products:

CD163 antibodies; CD163 ELISA Kits; CD163 Duos / Panels; Anti-Rabbit IgG secondary antibodies;

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Research Area M1/M2/TAM Marker antibody; Macrophage Marker antibody; M2 Macrophage Marker antibody

Calculated Mw 125 kDa

PTM A soluble form (sCD163) is produced by proteolytic shedding which can be induced by

lipopolysaccharide, phorbol ester and Fc region of immunoglobulin gamma. This cleavage is dependent on protein kinase C and tyrosine kinases and can be blocked by protease inhibitors. The shedding is inhibited by the tissue inhibitor of metalloproteinase TIMP3, and thus probably induced by membrane-

bound metalloproteinases ADAMs.

Phosphorylated. [UniProt]

Cellular Localization Soluble CD163: Secreted. Cell membrane; Single-pass type I membrane protein. Note=Isoform 1 and

isoform 2 show a lower surface expression when expressed in cells. [UniProt]

# Human fetal kidney 250 150 100 75 50 37 25 20 15 10 -

### ARG59295 anti-CD163 antibody WB image

Western blot: Human fetal kidney lysate stained with ARG59295 anti-CD163 antibody.