

## ARG66630 anti-CD163 antibody [SQab19148]

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab19148] recognizes CD163
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Rabbit
Clonality	Monoclonal
Clone	SQab19148
Isotype	IgG
Target Name	CD163
Species	Human
Immunogen	Synthetic peptide within aa. 1056-1156 of 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	1:100 - 1:200
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C - 25°C) for 30 minutes. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

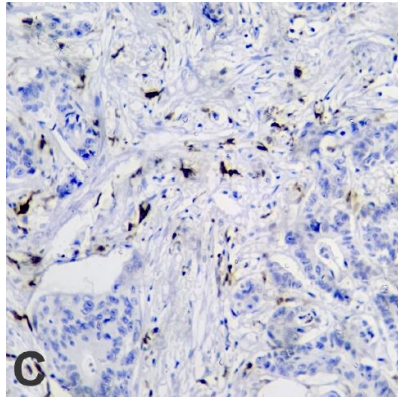
### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
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

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Gene Symbol	CD163
Gene Full Name	CD163 molecule
Background	<p>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]</p>
Function	<p>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.</p> <p>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]</p>
Highlight	<p>Related Antibody Duos and Panels: <a href="#">ARG30333 M1/M2/TAM Marker Antibody Panel</a></p> <p>Related products: <a href="#">CD163 antibodies</a>; <a href="#">CD163 ELISA Kits</a>; <a href="#">CD163 Duos / Panels</a>; <a href="#">Anti-Rabbit IgG secondary antibodies</a>;</p> <p>Related news: <a href="#">New antibody panels and duos for Tumor immune microenvironment</a> <a href="#">Anti-SerpinB9 therapy, a new strategy for cancer therapy</a> <a href="#">RIP1 activation and pathogenesis of NASH</a></p>
Research Area	M1/M2/TAM Marker antibody; Macrophage Marker antibody; M2 Macrophage Marker antibody
Calculated Mw	125 kDa
PTM	<p>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.</p> <p>Phosphorylated. [UniProt]</p>
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]

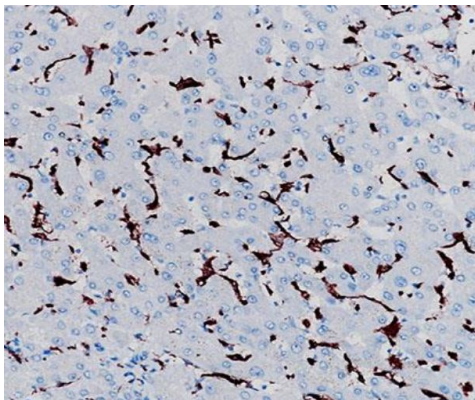


ARG66630 anti-CD163 antibody [SQab19148] IHC-P image

Immunohistochemistry: Human colorectal cancer stained with ARG66630 anti-CD163 antibody [SQab19148].

From Brambilla, Eduardo et al. Doutorado em Ciências da Saúde (2024), [URL: https://repositorio.ucs.br/xmlui/handle/11338/13745](https://repositorio.ucs.br/xmlui/handle/11338/13745), Fig. 2. C.

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ARG66630 anti-CD163 antibody [SQab19148] IHC-P image

Immunohistochemistry: Formalin/PFA-fixed and paraffin-embedded Human liver tissue stained with ARG66630 anti-CD163 antibody [SQab19148]. Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0).

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