

**Rabbit Anti-CD163/M130 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP52291****Specification**

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**Rabbit Anti-CD163/M130 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, FC
Primary Accession	<a href="#">Q86VB7</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**Rabbit Anti-CD163/M130 Polyclonal Antibody - Additional Information****Gene ID** 9332**Other Names**

M13; MM13; Scavenger receptor cysteine-rich type 1 protein M13; Hemoglobin scavenger receptor; CD163

**Dilution**

<span class = "dilution\_WB">WB~~1:100~1:500</span><br \><span class = "dilution\_IHC-P">IHC-P~~1:100~1:500</span><br \><span class = "dilution\_FC">FC~~1:20~1:100</span></span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**Rabbit Anti-CD163/M130 Polyclonal Antibody - Protein Information****Name** CD163**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**

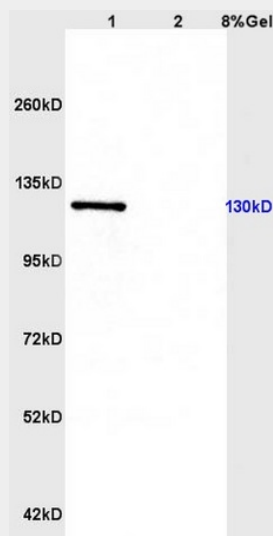
Expressed in monocytes and mature macrophages such as Kupffer cells in the liver, red pulp macrophages in the spleen, cortical macrophages in the thymus, resident bone marrow macrophages and meningeal macrophages of the central nervous system. Expressed also in blood. Isoform 1 is the lowest abundant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

### **Rabbit Anti-CD163/M130 Polyclonal Antibody - Protocols**

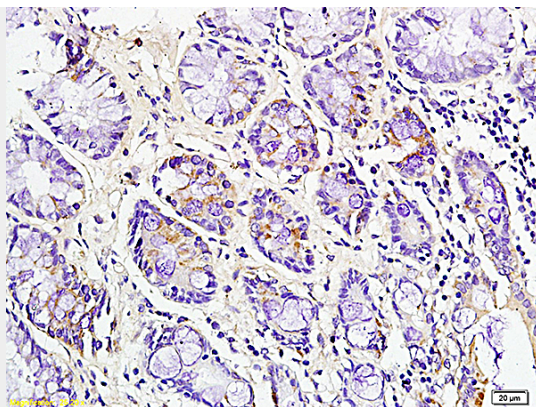
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

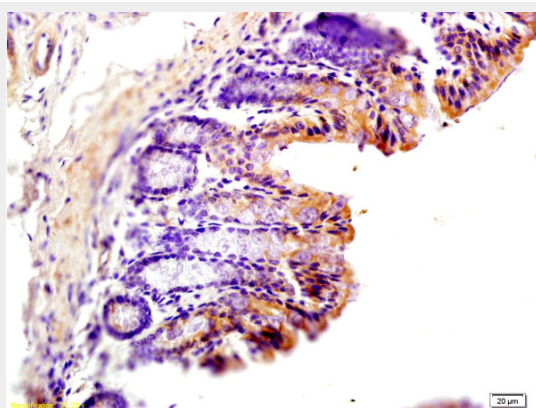
### **Rabbit Anti-CD163/M130 Polyclonal Antibody - Images**



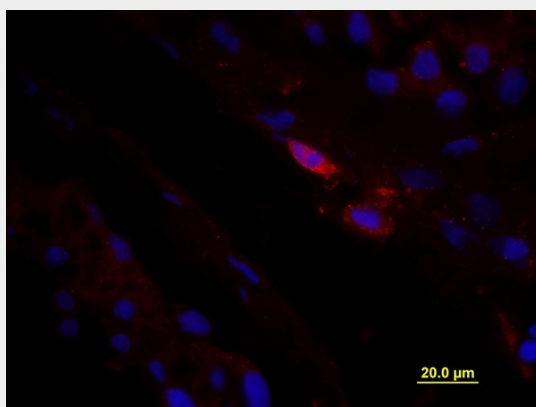
L1 rat brain, L2 mouse uterus lysates probed (AP52291) at 1:200 in 4°C. Followed by conjugation to secondary antibody at 1:3000 90min in 37°C. Predicted and observed band size: 130kDa.



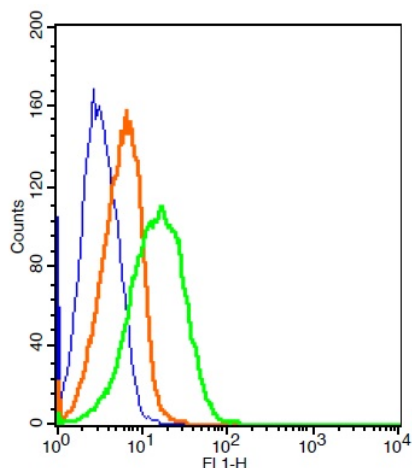
Formalin-fixed and paraffin embedded rat colon tissue labeled with Anti-CD163/M130 Polyclonal Antibody, Unconjugated (AP52291) followed by conjugation to the secondary antibody and DAB staining



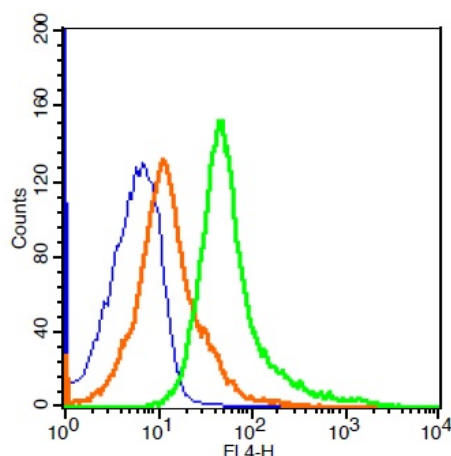
Formalin-fixed and paraffin embedded mouse intestine labeled with Rabbit Anti CD163 Polyclonal Antibody, Unconjugated AP52291 at 1:200 followed by conjugation to the secondary antibody and DAB staining



Formalin-fixed and paraffin embedded Human testis tissue labeled with unconjugated Anti-CD163/M130 Polyclonal Antibody, unconjugated AP52291 at 1:100 for 40 minutes at 37°C followed by labeling Donkey Anti-Rabbit, Cy3 conjugated 1:300, 60 minutes at 37°C. DAPI nuclear stain employed. Image shows membrane staining of testicular macrophages in the interstitial compartment of the testis, while cells in the seminiferous tubules are negative.



Mouse splenocytes probed with Rabbit Anti-CD163/M130 Polyclonal Antibody, FITC Conjugated (AP52291-FITC) at 1:10 for 30 minutes compared to control unstained cells (blue) and isotype control (orange).



RSC96 cells probed with CD163/M130 Polyclonal Antibody, ALEXA FLUOR® 647 Conjugated (AP52291-A647) at 1:20 for 30 minutes compared to control cells (blue) and isotype control (orange).

#### **Rabbit Anti-CD163/M130 Polyclonal Antibody - Background**

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.