

CD163 Antibody

Rabbit mAb Catalog # AP91275

Product Information

ApplicationWB, IHC, IPPrimary AccessionQ86VB7ReactivityHumanClonalityMonoclonal

Other Names CD163; CD163 antigen; CD163 molecule; SCARI1; sCD163; Soluble CD163;

IsotypeRabbit IgGHostRabbitCalculated MW125451

Additional Information

Dilution WB 1:500~1:2000 IHC 1:50~1:200 IP 1:30

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human CD163

Description 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.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

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.

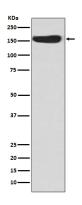
Cellular Location

[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

Images



Western blot analysis of CD163 expression in Human fetal kidney lysate.

Image not found: 202311/AP91275-IHC.jpg

Immunohistochemical analysis of paraffin-embedded mouse liver, using CD163 Antibody.

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