

KD-Validated Anti-CD163 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2326

Product Information

Application	WB, ICC
Primary Accession	Q86VB7
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB3750
Calculated MW	125451
Gene Name	CD163
Aliases	CD163; CD163 Molecule; M130; SCAR11; MM130; Scavenger Receptor Cysteine-Rich Type 1 Protein M130; Hemoglobin Scavenger Receptor; CD163 Antigen; Macrophage-Associated Antigen
Immunogen	A synthesized peptide derived from human CD163

Additional Information

Gene ID	9332
Other Names	Scavenger receptor cysteine-rich type 1 protein M130, Hemoglobin scavenger receptor, CD163, Soluble CD163, sCD163, CD163, M130

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

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