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Anti-CD163 Antibody

Mouse monoclonal antibody to CD163
Catalog # AP61613

Product Information

Application	IHC
Primary Accession	Q86VB7
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	125451

Additional Information

Gene ID	9332
Other Names	M130; Scavenger receptor cysteine-rich type 1 protein M130; Hemoglobin scavenger receptor; CD163
Target/Specificity	Recognizes endogenous levels of CD163 protein.
Dilution	IHC~~1:100~500
Format	Mouse IgG1. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

Background

KLH-conjugated synthetic peptide encompassing a sequence within human CD163. The exact sequence is proprietary.