

Human Soluble CD163 (sCD163) ELISA Kit

Catalog No: #EK11657



Package Size: #EK11657-1 48T #EK11657-2 96T

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Description

Product Name	Human Soluble CD163 (sCD163) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	M130; MM130; CD163 antigen macrophage-associated antigen
Accession No.	Q86VB7
Uniprot	Q86VB7
GeneID	9332;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.625-40 ng/mL

Sensitivity:0.273 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate CD163 in samples. An antibody specific for CD163 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCD163 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CD163 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CD163 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:CD163, a hemoglobin scavenger receptor, is expressed in monocytes and macrophages.Acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin c by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage.CD163 may play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. It binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. It 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.

Note: This product is for in vitro research use only