

NEW!

Measuring macrophage and monocyte activation using soluble CD163 as marker

**Macro163™
soluble CD163 ELISA assay**

**Co-developed by IQ Products (www.iqproducts.nl) and
Trillium Diagnostics (www.trilliumdx.com)**

A unique product!

- Assay completed within 3 hours with less than 1 hour of hands-on-time.
- Minimum sample volume only 2 μ l
- Based on the two most published soluble CD163 ELISA protocols
- Standardized and quantitative
- Use of fully characterized recombinant CD163 protein as standard

Sample sources

- Serum
- Plasma
- Synovial fluid
- Cerebrospinal fluid
- Ascites
- Pleural effusions
- Cell-supernatants

Broad research applications possibilities

- sCD163 analysis in association with post-infectious recovery phase and declining inflammation.
- Measurement of sCD163 in infectious disease, possibly combined with measuring leukocyte CD163 and CD64 expression.
- Detection and monitoring disease course of myeloproliferative diseases and hemophagocytic syndrome.



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Intended use

This Macro163™ kit is intended for the quantification of soluble CD163 (sCD163) in serum or plasma samples. It is designed *for research purposes only*. The Macro163™ assay has been validated for serum and plasma measurements but can also be applied to other biological fluids like synovial fluid, ascites fluid, pleural effusions, cerebrospinal fluid and cell-supernatants.

Background information

CD163 is a membrane protein and member of the group B Scavenger Receptor Cysteine-Rich super family expressed on peripheral blood monocytes, and more strongly on most macrophages. These cells play a central role in the host response to infection. From the literature it is observed that serum levels of sCD163 are associated with levels of CRP. Histologically, the presence of CD163 has been associated with a post-infectious recovery phase and declining inflammation. It is known that CD163 positive macrophages are a major cell subpopulation in the human term placenta suggesting a role for the placenta functioning as an active immunosuppressive biological barrier between mother and fetus. Measurement of sCD163 may be a valuable marker in diseases with macrophage and/or monocyte involvement like in infections, myeloproliferative diseases and hemophagocytic syndrome.

Principle of the Macro163™ assay

The assay is based on the sandwich ELISA procedure. A polyclonal antibody recognizing CD163 is immobilized on the surface of the microtiterplate. After incubation with the sample or recombinant CD163 standard a second biotinylated monoclonal antibody recognizing CD163 is added. Detection of the latter is done by adding streptavidin-HRP. Using TMB as the substrate for the enzyme HRP, the amount of sCD163 protein can be quantified.

Product details

Item	Description	Test size	Product code
Macro163™ [RUO]	sCD163 ELISA assay for macrophage and monocyte activation	96 tests	IQP-383

[RUO] - For research Use Only

Related products

CD163 antibodies (100 test per vial)			Product format and product code			
Clone	Isotype	Description	Purified	Biotin	FITC	R-PE
MAC2-158	Mo IgG1	Monocytes, macrophages	CD163-158U		CD163-158F	CD163-158P
MAC2-48	Mo IgG1	Monocytes, macrophages	CD163-48U			CD163-48P
R-20	Mo IgG1	Monocytes, macrophages	CD163-20U	CD163-20B		

Sepsis detection		Product format	Test size	Code
Leuko64™ [IVD]	Complete kit for the detection of inflammation and tissue injury by leukocyte CD64 detection	Flow cytometer version	75 tests	LK-64-75
			250 tests	LK-64-250
		Hematology analyzer version	100 tests	LK64-H-100

[IVD] - For In Vitro Diagnostic use.
This product is registered as IVD in the countries belonging to the European Community