



SC5b-9 Plus

For **Research Use Only** in the U.S. Not for use in diagnostic procedures.

The MicroVueComplement SC5b-9 Plus EIA measures the status of the terminal complement pathway by quantifying the amount of SC5b-9 (TCC) in human serum and plasma.

Activation of the terminal complement pathway is the result of activation of any of the three pathways in the complement system: the classical, alternative and lectin pathways. In this process, complement protein C5 is cleaved to C5b and may then interact sequentially with complement proteins C6, C7, C8 and C9 forming the terminal complement complex (TCC). In the presence of a membrane, these complexes can form transmembrane pores causing complement mediated cytolysis. In the absence of a target membrane, the TCC binds to naturally occurring regulatory serum proteins and the resulting products are commonly called SC5b-9.

The MicroVueComplement SC5b-9 Plus EIA measures the concentration of SC5b-9 (TCC) thus giving an indication of terminal complement pathway activation.

Format

- ELISA
- 96-well microplate with reagents sufficient to test 40 samples in duplicate
- Sample type: Human serum, EDTA and Citrate Plasma and other experimental specimens
- Controls: Normal, low

Species Cross Reactivity:

- African Green Monkey, Cynomolgus Monkey, Rhesus Monkey, Pigtail Monkey

Assay Steps

- Add ~300 µL of wash buffer
- Incubate 2 minutes at 15°C to 30°C
- Aspirate liquid from each well
- Pipette 100 µL of Specimen diluent, Standards, Controls, and diluted Specimens into assay wells
- Incubate 60 ±1 minutes at 15°C to 30°C
- Wash 5 times with wash buffer
- Pipette 50 µL of SC5b-9 Plus Conjugate into assay wells
- Incubate 30 ±1 minutes at 15°C to 30°C
- Wash 5 times with wash buffer
- Pipette 100 µL of Substrate into assay wells
- Incubate 15 ±1 minutes at 15°C to 30°C
- Pipette 100 µL of Stop Solution into assay wells and read at OD 450 nm
- Data reduction: Linear

Assay Performance

- Analyte:** SC5b-9 Complex (TCC, terminal complement complex)
- Sample Volume:** 100 µL
- Limit of Detection:** 3.7 ng/mL
- Lower Limit of Quantification:** 8.8 ng/mL
- Precision within run:** 1.6%-6.8%
- Precision between run:** 5.0%-13.1%
- Incubation Time:** < 2 hours

MicroVue SC5b-9 Plus EIA – Cat. #A020; #A029 (CE)

Also available:

MicroVueComplement iC3b EIA – Cat. #A006
MicroVueComplement C4d EIA – Cat. #A008
MicroVueComplement C3a EIA – Cat. #A015

Human Serum Complement – Cat. #A113
Monoclonal Antibody to Human
SC5b-0 (Neoantigen) – Cat. #A239

