

PULMONARY DISEASES

Immunoassays



HUMAN CLUB CELL PROTEIN (CC16) ELISA

Cat. No.: RD191022200

IVD CE

Intended use

The RD191022200 Human Club Cell Protein (CC16) ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human Club Cell Protein (CC16) in serum and plasma.

- The total assay time is less than 4 hours
- The kit measures Club Cell Protein (CC16) in serum and plasma (EDTA, citrate, heparin)
- Assay format is 96 wells
- Quality Controls are human serum based. No animal sera are used
- Standard is recombinant protein (*E. coli*) based
- Components of the kit are provided ready to use, concentrated or lyophilized

Clinical application

- Immune Response, Infection and Inflammation
- Pulmonary diseases

Immunoassays

Test principle

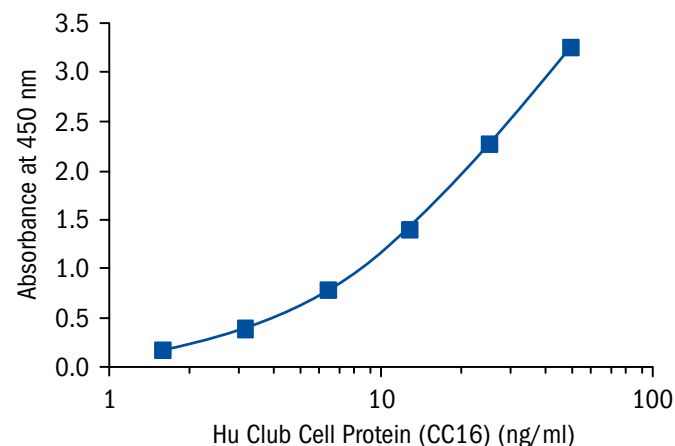
In the BioVendor Human Club Cell Protein (CC16) ELISA, standards, quality controls and samples are incubated in microplate wells pre-coated with polyclonal anti-human Club cell antibody. After 60 minutes incubation and washing, biotin labelled polyclonal anti-human Club cell protein (CC16) antibody is added and incubated with captured Club cell protein (CC16) for 60 minutes. After another washing, streptavidin-horseradish peroxidase conjugate is added. After 60 minutes incubation and the last washing step, the remaining conjugate

is allowed to react with the substrate solution (TMB). The reaction is stopped by addition of acidic solution and absorbance of the resulting yellow product is measured. The absorbance is proportional to the concentration of Club cell protein (CC16). A standard curve is constructed by plotting absorbance values against concentrations of standards, and concentrations of unknown samples are determined using this standard curve.

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Assay format	Sandwich ELISA, Biotin-labelled antibody, 96 wells/kit
Samples	Serum, Plasma (EDTA, Citrate, Heparin)
Controls	QC-Low, QC-High
Standards	1.57 to 50 ng/ml
Limit of detection	46 pg/ml



Summary of protocol

- Reconstitute QCs and Master Standard and prepare set of standards
- Dilute Standards, QCs and samples 25×
- Add 100 µl Standards, QCs and samples
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 µl Biotin Labelled Antibody
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 µl Streptavidin-HRP Conjugate
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 µl Substrate Solution
- Incubate at RT for 10 min
- Add 100 µl stop solution
- Read absorbance and calculate results

Related products

- Club Cell Protein (CC16) Human E.coli RD172022100
- Club Cell Protein (CC16) Human, Rabbit Polyclonal Antibody RD181022220-01

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