

# RENAL DISEASE

## Immunoassays

### HUMAN CLUSTERIN ELISA

Cat. No.: RD194034200R

**RUO**

#### Intended use

The RD194034200R Human Clusterin ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human clusterin in serum, plasma, cerebrospinal fluid, urine and cell lysate.

- The total assay time is less than 3.5 hours
- The kit measures clusterin in serum, plasma (EDTA, citrate, heparin), cerebrospinal fluid (CSF), urine, cell culture, and cell lysate
- Assay format is 96 wells
- Quality Controls are human serum based.
- Standard is human serum based native protein
- Components of the kit are provided ready to use, concentrated or lyophilized

#### Clinical application

- Coronary heart diseases
- Neurodegenerative diseases
- Kidney degenerative disease
- Renal tubular damage
- Myocardial infarction

# Immunoassays

## Test principle

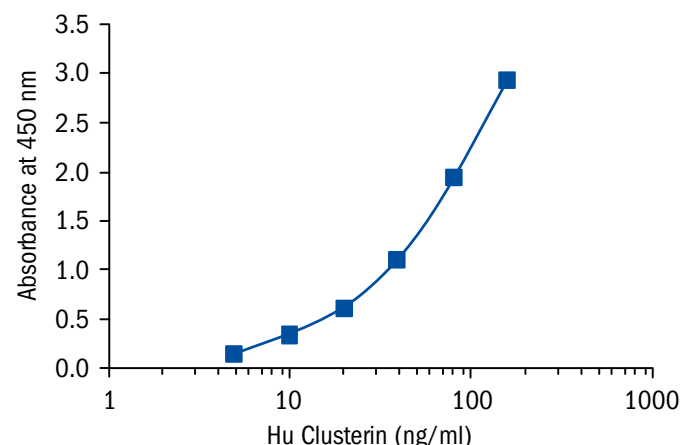
In the BioVendor Human Clusterin ELISA, standards, quality controls and samples are incubated in microplate wells pre-coated with monoclonal anti-human clusterin antibody. After 60 minutes incubation and washing, biotin labelled second monoclonal anti-human clusterin antibody is added and incubated with captured clusterin for 60 minutes. After another washing, streptavidin-HRP conjugate is added. After 30 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 clusterin. 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	Cell lysate, Cerebrospinal fluid, Plasma-Citrate, Plasma-EDTA, Plasma-Heparin, Serum, Urine
Controls	QC-Low, QC-High
Standards	5 to 160 ng/ml
Limit of detection	0.5 ng/ml
Cross-reactivity	Monkey



## Summary of protocol

- Reconstitute QCs and Master Standard and prepare set of standards
- Dilute samples 3 000×
- Add 100 µl Standards, QCs and samples
- Incubate at RT for 1 hour/300 rpm
- Wash plate 5 times
- Add 100 µl Biotin Labelled Antibody
- Incubate at RT for 1 hour/300 rpm
- Wash plate 5 times
- Add 100 µl Streptavidin-HRP
- Incubate at RT for 30 min/300 rpm
- Wash plate 5 times
- Add 100 µl Substrate Solution
- Incubate at RT for 10 min
- Add 100 µl Stop Solution
- Read absorbance and calculate results

## Related products

- Clusterin Human HEK293 RD172034100
- Clusterin Human HEK293 RD172034020
- Clusterin Human Plasma RD172034050-S
- Clusterin Human, Mouse Monoclonal Antibody, Clone: Hs-3 RD182034110-H3

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