NEURAL TISSUE DAMAGE MARKERS

Immunoassays

HUMAN GFAP ELISA

Cat. No.: RD192072200R **RUO**

Intended use

The RD192072200R Human GFAP ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human Glial Fibrillary Acidic Protein (GFAP) in serum, cerebrospinal fluid and plasma.

- The total assay time is about 5 hours
- The kit measures GFAP in serum, cerebrospinal fluid (CSF) and plasma
- Assay format is 96 wells
- Quality Controls are human serum based
- Standard is purified native protein based
- Components of the kit are provided ready to use, concentrated or lyophilized

Clinical application

- Brain injury
- Ischemic stroke

Test principle

In the BioVendor Human GFAP ELISA, standards, quality controls and samples are incubated in microplate wells pre-coated with polyclonal anti-human GFAP antibody. After 120 minutes incubation and washing, biotin labelled monoclonal anti-human GFAP antibody is added and incubated for 60 minutes with captured GFAP. After another washing, streptavidin-HRP 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 GFAP. 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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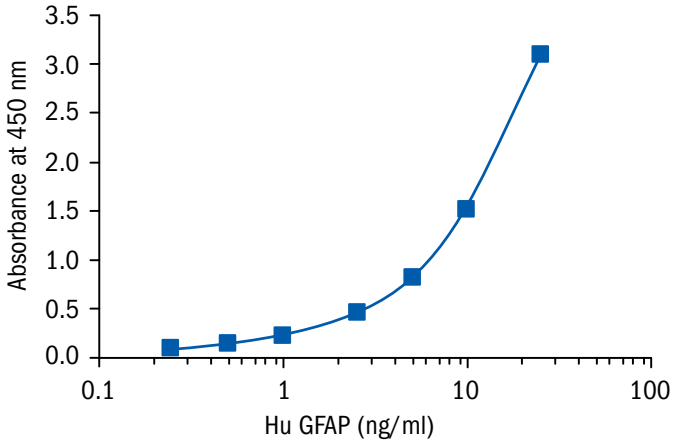
Assay format	Sandwich ELISA, Biotin-labelled antibody, 96 wells/kit
Samples	Cerebrospinal fluid, Plasma (EDTA, citrate, heparin), Serum
Controls	QC-Low, QC-High
Standards	0.25 to 25 ng/ml
Limit of detection	0.045 ng/ml



Summary of protocol

- Reconstitute QCs and Master Standard and prepare set of Standards
- Dilute QCs and Standards and samples 3×
- Add 100 µl Standards, QCs and samples
- Incubate at RT for 2 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 10-15 min
- Add 100 µl stop solution
- Read absorbance and calculate results

Related products

- S100B Human ELISA RD192090100R

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