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Human glial fibrillary acidic protein, GFAP ELISA Kit

Product Code	CSB-E08601h
Abbreviation	GFAP
Target Name	glial fibrillary acidic protein
Uniprot No.	P14136
Alias	FLJ45472
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.625 ng/mL-40 ng/mL
Sensitivity	0.156 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Neuroscience
Quality Control	A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm. An incubator can provide stable incubation conditions up to 37°C±5°C. Centrifuge Vortex Squirt bottle, manifold dispenser, or automated microplate washer Absorbent paper for blotting the microtiter plate 50-300ul multi-channel micropipette Pipette tips Single-channel micropipette with different ranges 100ml and 500ml graduated cylinders Deionized or distilled water Timer Test tubes for dilution
Gene Names	GFAP
Tag Info	quantitative
Protein Description	Sandwich
Component	A micro ELISA plateThe 96-well plate has been pre-coated with an anti- human GFAP antibody. This dismountable microplate can be divided into 12 x 8

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strip plates. Two vials lyophilized standard ---Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve. One vial Biotin-labeled GFAP antibody (100 x concentrate) (120 µl/bottle) ---Act as the detection antibody. One vial HRP-avidin (100 x concentrate) (120 µl/bottle) ---Bind to the detection antibody and react with the TMB substrate to make the solution chromogenic. One vial Biotin-antibody Diluent (15 ml/bottle) ---Dilute the Biotin-antibody. One vial HRP-avidin Diluent (15 ml/bottle) ---Dilute the HRP-avidin solution. One vial Sample Diluent (50 ml/bottle)---Dilute the sample to an appropriate concentration. One vial Wash Buffer (25 x concentrate) (20 ml/bottle) ---Wash away unbound or free substances. One vial TMB Substrate (10 ml/bottle) ---Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue. One vial Stop Solution (10 ml/bottle) ---Stop the color reaction. The solution color immediately turns from blue to yellow. Four Adhesive Strips (For 96 wells) --- Cover the microplate when incubation. An instruction manual Description This Human GFAP ELISA Kit was designed for the quantitative measurement of Human GFAP protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL. **Target Details** This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms. **Product Precision** Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess. Linearity To assess the linearity of the assay, samples were spiked with high concentrations of human GFAP in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay. ? Sample Serum(n=4) Average % 100 1:1 97-103 Range % Average % 101 1:2 Range % 98-104 Average % 95 1:4 Range % 90-100



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