Cytokeratin Fragment Antigen 21-1 (CYFRA21-1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytokeratin Fragment Antigen 21-1 (CYFRA21-1), ELISA Kit
Full Product Name	Human Cytokeratin Fragment Antigen 21-1 ELISA Kit
Product Gene Name	CYFRA21-1 elisa kit
Product Synonym Names	CYFRA21-1 (Cytokeratin Fragment Antigen 21-1)
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of CYFRA21-1. No significant cross-reactivity or interference between CYFRA21-1 and analogues was observed.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CYFRA21-1 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CYFRA21-1 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CYFRA21-1 elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-CYFRA21-1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- CYFRA21-1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the CYFRA21-1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of CYFRA21-1 can be calculated.
Other Notes	Small volumes of CYFRA21-1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CYFRA21-1 purchase	MBS764537 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytokeratin Fragment Antigen 21-1 (CYFRA21-1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CYFRA21-1. The ELISA analytical biochemical technique of the MBS764537 kit is based on CYFRA21-1 antibody-CYFRA21-1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYFRA21-1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYFRA21-1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

Typical Data & Standard Curve

Results of a typical standard run of a CYFRA21-1 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.312	0.625	1.25	2.5	5	10	20
Y	OD450	0.048	0.224	0.299	0.429	0.635	1.082	1.739	2.37

Typical Testing Data/Standard Curve (for reference only) of CYFRA21-1 elisa kit

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MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/cyfra21-1-human-elisa-kits/cytokeratin-fragment-antigen-21-1/764537