Human Hepatitis E virus antibody(IgG)ELISA Kit

Product Code	CSB-E04811h
Abbreviation	HEV Ab (IgG)
Protein Biological Process 1	Infection
Target Name	Hepatitis E virus antibody(IgG)
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma
Detection Range	Request Information
Sensitivity	Request Information
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	Microbiology
Quality Control	A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 630 nm. An incubator that 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
Tag Info	qualitative
Protein Description	Indirect
Component	A 96-well Assay plate --The 96-well plate has been pre-coated with HEV antigen Negative Control (1 x 0.4ml) --Eliminate false positive Positive Control (1 x 0.4ml) --Used to evaluate the validity, stability, and comparability of experimental results. HRP-conjugated IgG antibody(1 x 12ml) --Bind to the anti-HEV IgG antibody, and HRP catalyzes the TMB to elicit a chromogenic reaction.

Sample Diluent (1x 12ml) --Dilute the sample to an appropriate concentration.
Wash Buffer (20x concentrate) (1 x 50 ml) --Wash away unbound or free substances.
Substrate A (1 x 6ml) --Mix with substrate B and interact with HRP, eliciting a Chromogenic reaction.
Substrate B (1 x 6ml) --Mix with substrate A and interact with HRP, eliciting a Chromogenic reaction.
Stop Solution (1 x 6ml) --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 Hepatitis E virus antibody (IgG) ELISA Kit is designed to qualitatively detect the HEV IgG antibody in the serum and plasma. It employs the qualitative enzyme immunoassay technique. The microtiter plate has been pre-coated with HEV antigen. Samples or standards are pipetted into the wells with anti-human IgG conjugated HRP. Following a wash to remove any unbound reagent, the TMB substrate solution is added to the wells and color develops in proportion to the amount of human HEV IgG antibody bound in the initial step. The color development is stopped and the intensity of the color is measured by a microplate reader at 450 nm.The valence of human HEV IgG antibody in the samples is determined by referring to the negative control. It indicates the presence of HEV IgG antibody if the O.D. (optical density) of sample is greater than or equal to the cutoff value (average Negative Control O.D. value plus 0.10). There is no HEV IgG antibody present in the sample if the O.D. is less than the cutoff value.

This assay has high sensitivity and excellent specificity for detection of human HEV IgG antibody. And it also has been validated with precision less than 15% and lot-to-lot consistency. Get more details from the product instructions.

HEV is a small, non-enveloped RNA virus that causes an acute, self-limited infection. Both anti-HEV IgM and IgG antibodies are produced after infection. Infected patients develop hepatitis symptoms following an incubation period of 15 to 60 days. Anti-HEV IgM antibodies appear in their serum at this time, followed by detectable anti-HEV IgG within a few days. HEV IgM antibody can still be detected 6 months after the onset of symptoms, while anti-HEV IgG usually persists for many years after infection. Anti-HEV IgG serological test can determine previous exposure to HEV. A positive result indicates prior or resolved HEV infection. A negative result indicates no past exposure to HEV.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<15%
Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision (Precision between assays): CV%<15%
Three samples of known concentration were tested in twenty assays to assess.

Typical

Test parameter specification test result

Positive control	>0.6	0.799
Negative control	<0.1	0.046
Positive rate	10?Positive	100%
Negative rate	10?Negative	100%