



Hepatocyte Growth Factor kit

IMMUNIS® HGF EIA

Reagent for determination of human Hepatocyte Growth Factor (HGF)



General description

Serum Hepatocyte growth factor level elevates in various liver diseases and fluctuates reflecting the conditions of patients. Serum HGF concentration in fulminant hepatitis patients increases significantly in comparison with those in other hepatitis and its close relation with encephalopathy is known widely. That is, this marker shows an abnormal elevation just before expression of encephalopathy and decreases with recovery from it. After expression of encephalopathy, HGF level further elevates when poor prognosis is expected. Since prothrombin time as one of the diagnostic criteria of fulminant hepatitis also decreases in acute hepatitis, liver cirrhosis, or hepatocellular carcinoma, HGF is expected to be a marker more specific to fulminant hepatitis. Determination of HGF, therefore, is an effective means for diagnosis of fulminant hepatitis at its early stage and its prognosis.

"IMMUNIS® HGF EIA" affords determination of serum HGF at ease by means of the enzyme immunoassay (EIA) using monoclonal antibodies.



Features

1. Two monoclonal antibodies used in this kit assure determination of HGF level at high sensitivity.
2. 2-step immuno reaction assures determination in a short time.
3. This kit does not require any special facility and can determine the marker at least with the minimum preparation of reagents.

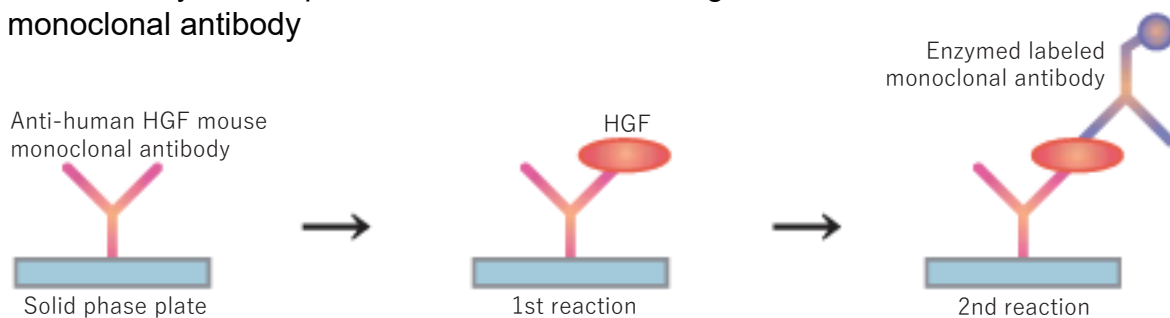
Kit Components

1. Anti-HGF monoclonal antibody coated microplate (8 wells x 12 strips) 1 plate
2. HGF standard solution 1 (0 ng/mL) 0.5 mL x 1 vial
 HGF standard solution 2 (0.1 ng/mL) 0.5 mL x 1 vial
 HGF standard solution 3 (0.3 ng/mL) 0.5 mL x 1 vial
 HGF standard solution 4 (1 ng/mL) 0.5 mL x 1 vial
 HGF standard solution 5 (3 ng/mL) 0.5 mL x 1 vial
3. Sample diluent 15 mL x 1 vial
4. Enzyme labeled monoclonal antibody 10 mL x 1 vial
5. Enzyme substrate 30 mL x 1 vial
6. Color developer 4 tablets
7. Reaction stopper (2 mol/L sulfuric acid) ... 6 mL x 1 vial
8. 20x concentrated washing solution 25 mL x 2 vials
9. Plate seal 3 sheets



Assay Principle

Measured by two-step sandwich EIA method using anti-human HGF mouse monoclonal antibody



Assay Procedure

Anti-HGF monoclonal antibody coated microplate

Sample diluent 50 μ L + HGF standard solution 50 μ L
Samples 50 μ L

1st reaction

Shaking for 1 hour at 20-30°C

Wash 5 times

Enzyme labeled monoclonal antibody 100 μ L

2nd reaction

Shaking for 1 hour at 20-30°C

Wash 5 times

Enzyme substrate 100 μ L

Enzyme reaction

For 30 min at 20-30°C in the dark

Reacton stopper 50 μ L

Absorbance measurement: 492 nm or 490 nm

[Reference]

- 1) Nakamura T, Nawa K, Ichihara A : Biochem. Biophys. Res. Commun. **122** : 1450-1459, 1984.
- 2) Nakamura T, Nishizawa T, Hagiya M, et al : Nature **342** : 440-443, 1989.
- 3) Nakamura T : Prog. Growth Factor Res. **3** : 67-85, 1991.

Product Information

Product code	Product name	Package	Storage	Shelf life
1EH1	IMMUNIS [®] HGF EIA	96 tests	2-10°C	1 year



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