



Anti-Hepatitis C Virus E2, Rabbit-Polyclonal Antibody

Catalog No. GB-10416

Quantity: 100 μ g **Applications tested:** ELISA

Antigen species: Hepatitis C Virus

Reactivity: Hepatitis C Virus

Host species: Rabbit

Form: Peptide affinity purified antibody

Target description

Hepatitis C virus E2 is highly glycosylated membrane-anchored protein that forms a heterodimer with the E1 protein and mediates viral entry.

Antigen

This polyclonal antibody was raised by immunizing rabbit with synthetic peptide mixture containing amino acids on the N-terminal domain (66-88) of HCV E2 protein.

Application

The antibody titer is more than 1000K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/10,000 dilution for ELISA, 1/5000 dilution for Western blot analysis (WB) of recombinant protein, 1/2000 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

Related Products

1. Anti-Influenza A Virus Matrix Protein M1, pAb(GB-10083)
2. Anti-vaccinia virus fusion protein (14K, A27L), pAb (GB-10397)
3. Anti-Dengue Viruses, pAb (PG-10003)
4. Anti-Japanese encephalitis virus, pAb (PG-10004)
5. Anti-Sigma 38 of Serratia marcescens , pAb (GB-10391)
6. Anti-Sigma 32 of Serratia marcescens , pAb (GB-10392)

	Pre-bleed	Purified-Ab
1:100	0.125	1.635
1:1,000	0.057	1.434
1:10,000	0.045	1.189
1:100,000	0.043	0.729
1:1,000,000	0.044	0.295
1:10,000,000	0.041	0.108
Titer		8312K

The starting concentration of GB-10416, purified pAb, is 1 mg/ml.

ELISA Protocol

Antigen is coated on EIA strips at 1 μ g per well. Add 200 μ l of blocking buffer and then wash wells with PBST buffer. Antiserum GB-10416 is diluted in series as 10²~10⁷ folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plates and add substrate to develop color for 5 min. Read absorbance (ABS) at 650 nm. Amount of color is directly proportional to the amount of antibodies. Antibody is positive at >2 folds of ABS of control/Pre-Immune serum.

Storage

It is supplied as peptide affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1 \times PBS). Store at 4 $^{\circ}$ C for short-term application. For long-term storage, aliquot and store at -20 $^{\circ}$ C.

References

Tarr AW, Owsianka AM, Timms JM, McClure CP, Brown RJ, Hickling TP, Pietschmann T, Bartenschlager R, Patel AH, Ball JK, Characterization of the hepatitis C virus E2 epitope defined by the broadly neutralizing monoclonal antibody AP33. Hepatology. 2006 Mar;43(3):592-601.

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