Anti-HEV (Hepatitis E virus) Capsid antibody, mouse monoclonal (hev-02)

Product code	65-091
Size	100 μg
Storage	-20℃
Concentration	1.0 mg/ml
Buffer	PBS(-) with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium
Immunogen	Recombinant HEV-virus-like particle (VLP)
Isotype	mouse IgG1κ
Reactivity	Reacts with the capsid protein of HEV (M domain, amino acid 320-456)
Validation	Specificity has been validated by western blotting
Application	1.Western blotting: x1/400-800 (Fig.1) 2.Immunofluorescence: x1/400 (Fig.2)
Background	Hepatitis E virus (HEV) is a single-strand positive-sense RNA virus in the family Hepeviridae. The disease caused by HEV is an important public health problem in developing countries. A molecular phylogenetic analysis classifies HEV into four major genotypes (genotype 1-4). The genome of recombinant HEV-like particles (VLP) is about 7200 bases in length, and contains three discontinuous and partially overlapping open reading frames (ORFs). ORF1 encodes a methyltransferase, protease, helicase and replicase; ORF2 encodes the capsid protein and ORF3 encodes a protein of undefined function. The viral capsid protein induces neutralizing antibodies, and contains three subdomains, S (aa112-319), M (aa320-456) and P (aa457-608). Recombinant HEV-VLP was composed of approximately 53 kDa capsid protein.
Data Link	UniProKB Q6J8F7 (CAPSD_HEVMG), genotype 3

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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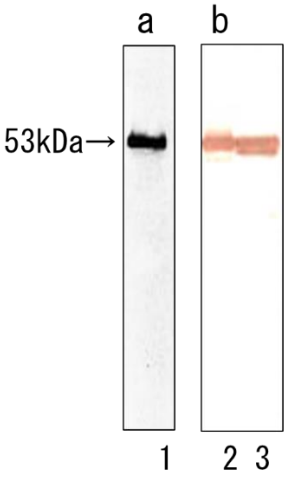
Data Images: 65-091 Anti-HEV (Hepatitis E virus) Capsid antibody, mouse monoclonal (hev-02)



F ig.1. Western blot (WB) of hev-02 antibody.
The lysates of proteins, (1) recombinant HEV- VLP (50μg/ml), (2) recombinant HEV-VLP (100μg/ml) and (3) HEV (genotype 3)-infected cells, were applied to SDS-PAGE and WB. The monoclonal antibody was used at 1/400 dilution. The HRP-conjugated goat anti-mouse IgG was used at 1/4,000 as the second and visualized by (a) ECL and (b) DAB (3,3'-Diaminobenzidine). A 53kDa band was identified as HEV-VLP capsid protein.

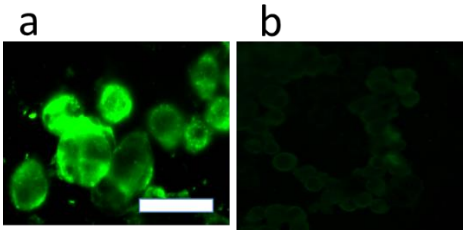


Fig.2. Immunofluorescence staining of HEV-infected Vero cells.
The HEV(genotype 3)-infected cells (a) and uninfected cells (b) on a slide glass were fixed with ethanol. The antibody was used at 1/400 dilution. The FITC-conjugated goat anti-mouse IgG was used at 1/4,000 as the second antibody. Bar maker represents 20μm.

References This antibody has not yet been used in publication.

Related Products:

65-090 Anti-HEV Capsid antibody, mouse monoclonal (hev-01)

65-092 Anti-HEV Capsid antibody, mouse monoclonal (hev-03)

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