

Anti-HEV (Hepatitis E Virus) Capsid Antibody, Rabbit polyclonal

Product code	65-093
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Recombinant truncated capsid protein (amino acids 112-608) of HEV (Genotype 3, 2712 strain)
Isotype	Rabbit IgG
Reactivity	Capsid protein of HEV
Special notes	N/A
Application	<ol style="list-style-type: none"> 1. Western blotting (2 µg/mL) 2. Immunoprecipitation (2 µg/mL) 3. Dot blotting (1 ug/mL) 4. ELISA (assay dependent)
Background	<p>Hepatitis E virus (HEV) is 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 HEV consists of about 7200 bases 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 (aa 320-456) and P (aa 457-608). Recombinant capsid protein is composed of approximately 53 kDa, smaller capsid protein subunit.</p>
Data Link	UniProKB Q6J8F7 (CAPSD_HEVMG), genotype 3
<p>Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.</p>	

Data Images: 65-093 Anti-HEV (Hepatitis E Virus) Capsid Antibody, Rabbit polyclonal

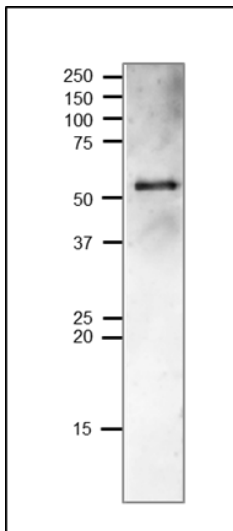


Fig.1 Western blot of recombinant of capsid protein of HEV

50 ng of recombinant capsid of HEV was run on SDS-PAGE (12.5% gel) and blotted onto PVDF membrane for one hour at room temperature (RT).

Anti-HEV capsid antibody was used at 2 µg/ml and incubated for one hour at RT. Second antibody (goat anti-rabbit IgG antibody, HRP-conjugated, ab97051) at 1/10,000 dilution was incubated at one hour at RT.

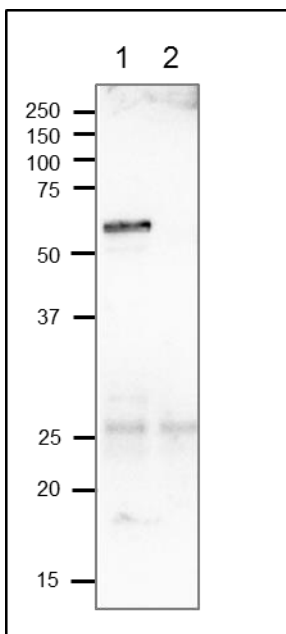


Fig.2 Immunoprecipitation of recombinant capsid of HEV by anti-HEV capsid antibody

1 µg of recombinant capsid of HEV was immune-precipitated with 10µg of anti-HEV capsid antibody and the precipitate was immune-blotted with anti-HEV capsid antibody.

Lane 1 : recombinant capsid of HEV

Lane 2 : mock

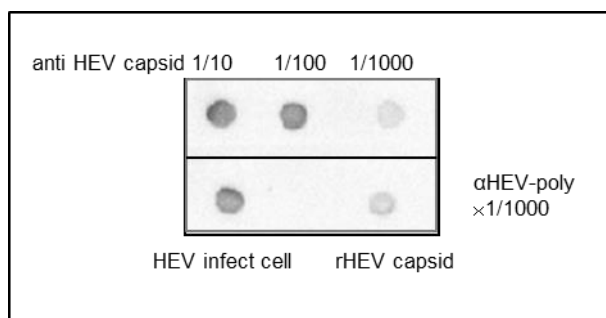


Fig.3 Dot blotting

Blot of 2μL of anti HEV capsid polyclonal (1/10, 1/100 or 1/1000 diluted serum), HEV infected cell lysate or 10ng of recombinant HEV capsid protein.

References for HEV-LP uses for immunization.

1. Yamashita T et al. Biological and immunological characteristics of hepatitis E virus-like particles based on the crystal structure. [PNAS 2009 Aug 4; 106\(31\):12986-91](#) . PMID: [19620712](#). IP, ELISA
2. Li TC et al. Essential elements of the capsid protein for self-assembly into empty virus-like particles of hepatitis E virus. *J Virol.* 2005 Oct;79(20):12999-3006. PMID: [16189002](#)
3. Li TC et al. Protection of cynomolgus monkeys against HEV infection by oral administration of recombinant hepatitis E virus-like particles. *Vaccine.* 2004 Jan 2;22(3-4):370-7. PMID: [14670318](#)

Related Products

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