

**bs-0212R****[ Primary Antibody ]****HEV ORF3 Rabbit pAb****BioSS**  
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**— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>ELISA</b> (1:5000-10000)
<b>Clonality:</b> Polyclonal		<b>Reactivity:</b> (predicted: HEV)
<b>Target:</b> HEV ORF3		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from HEV ORF3: 22-103/114.		<b>Predicted MW.:</b> 13.5 kDa
<b>Purification:</b> affinity purified by Protein A		<b>Subcellular Location:</b> Cytoplasm
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
<b>Background:</b> The Hepatitis E virus is the causative agent of Hepatitis E. Its taxonomic name is Orthohepevirus A. The viral genome a single-strand of positive-sense RNA that is approximately 7200 bases in length. It encodes 3 proteins (O1, O2, O3), two of which are polyproteins, that is, they are cleaved into fragments which carry out the actual functions of the virus. The O1 protein consists of 7 such fragments, namely Met (Methyltransferase), Y (Y-domain), Plp (Papain like protease), V (proline-rich variable region), X (X-domain, macro-domain), Hel (Helicase), and RdRp (RNA dependent RNA polymerase). The Pvx domain is a fusion protein consisting of the Plp, V and X domains. The O3 protein is encoded by a single open reading frame (ORF3). The O2 protein encodes the capsid, which is composed of 3 domains, namely the shell domain (S) and two protruding domains (P1, P2). Numbers in the figure indicate positions in the RNA sequence.		

**— SELECTED CITATIONS —**

- **[IF=14.7]** George Ssebyatika. et al. Broadly neutralizing antibodies isolated from HEV convalescents confer protective effects in human liver-chimeric mice. NATURE COMMUNICATIONS. 2025 Feb 26;16(1):1995. IF ; Mouse. 40011441
- **[IF=11.34]** Allweiss, Lena, et al. "Human liver chimeric mice as a new model of chronic hepatitis E virus infection and preclinical drug evaluation." Journal of Hepatology (2016). IHC ; "Human". 26805671
- **[IF=9.5]** Maliki Ankavay. et al. Monitoring of Hepatitis E Virus Infection and Replication by Functional Tagging of the ORF2 Protein. JHEP Reports. 2024 Dec;;101293 WB ; Human. 10.1016/j.jhepr.2024.101293
- **[IF=5.542]** Beer A et al. Chronic Hepatitis E is associated with Cholangitis. Liver Int. 2019 May 18. IHC ; Human. 31102493
- **[IF=4.122]** Lei Q et al. HEV ORF3 downregulates TLR7 to inhibit the generation of type I interferon via impairment of multiple signaling pathways Q Lei, L Li, S Zhang, T Li, X Zhang, X Ding, B Qin - Scientific Reports, 2018 Sci Rep. 2018 Jun 5;8(1):8585. WB ; Human. 29872132