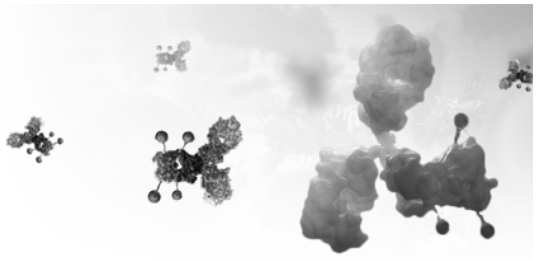

Anti-HCV Envelope Antigen 2 Polyclonal antibody (DPAB3949)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal antibody to Hepatitis C Virus Envelope Protein 2.
Antigen Description	Envelope glycoproteins E1 and E2 are involved in virus attachment to the host cell as well as in virus endocytosis and fusion with host membrane. E2 inhibits human EIF2AK2/PKR activation, preventing the establishment of an antiviral state. E2 is a viral ligand for CD209/DC-SIGN and CLEC4M/DC-SIGNR, which are respectively found on dendritic cells (DCs), and on liver sinusoidal endothelial cells and macrophage-like cells of lymph node sinuses. These interactions allow capture of circulating HCV particles by these cells and subsequent transmission to permissive cells. DCs are professional antigen presenting cells, critical for host immunity by inducing specific immune responses against a broad variety of pathogens. They act as sentinels in various tissues where they entrap pathogens and convey them to local lymphoid tissue or lymph node for establishment of immunity. Capture of circulating HCV particles by these SIGN+ cells may facilitate virus infection of proximal hepatocytes and lymphocyte subpopulations and may be essential for the establishment of persistent infection.
Specificity	Reacts with E2 (HCV). Cross-reactivity to E2 from other HCV not tested.
Target	HCV Envelope Antigen 2
Immunogen	in vivo expressed hepatitis C virus (HCV) envelope protein 2 (E2).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	HCV
Purification	Immunoaffinity chromatography.
Conjugate	Unconjugated

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Applications	WB, ELISA
Size	100 µg
Preservative	None
Storage	Store at 4 oC; DO NOT FREEZE; Stable for 1 year from the date of shipment. Non-hazardous.

BACKGROUND

Introduction	Hepatitis C virus (HCV) is a small (55–65 nm in size), enveloped, positive-sense single-stranded RNA virus of the family Flaviviridae. Hepatitis C virus is the cause of hepatitis C in humans.
Keywords	Group IV; Flaviviridae; Hepacivirus; Hepatitis C virus; E2 protein; Envelope glycoprotein E2; gp68; gp70; HCV E2; NS1

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