

Product datasheet for **AP00757PU-N**

HCV Envelope glycoprotein E2 (384-665) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, WB
Recommended Dilution:	ELISA. Western Blot. Immunofluorescence.
Reactivity:	Hepatitis C Virus
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Recombinant E2 (genotype 1a)
Specificity:	This antibody reacts with Hepatitis C Virus (HCV), E2 envelope protein.
Formulation:	0.01M PBS, pH 7.2 containing 0.09% Sodium Azide as preservative and no stabilizing proteins State: Purified State: Liquid purified Ig fraction (>95% pure)
Concentration:	lot specific
Purification:	Sodium Sulfate Precipitation and Ion-Exchange Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

Hepatitis C E2 is a virus envelope glycoprotein which forms a heterodimer with the E1 protein. 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.

Synonyms:

Hepatitis C Virus NS1, gp68, gp70