

AP00757PU-N**Polyclonal Antibody to HCV Envelope glycoprotein E2 (384-665) - Purified**

Alternate names:	Hepatitis C Virus NS1, gp68, gp70
Quantity:	1 ml
Concentration:	4-5 mg/ml (OD280nm, E0.1% = 1.4)
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.
Host:	Goat
Immunogen:	Recombinant E2 (genotype 1a)
Format:	State: Liquid purified Ig fraction (>95% pure) Purification: Sodium Sulfate Precipitation and Ion-Exchange Chromatography Buffer System: 0.01M PBS, pH 7.2 containing 0.09% Sodium Azide as preservative and no stabilizing proteins
Applications:	ELISA. Western Blot. Immunofluorescence. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with Hepatitis C Virus (HCV), E2 envelope protein.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Product Citations:	Purchased from Acris: 1. Moon JS, Lee SH, Kim EJ, Cho H, Lee W, Kim GW, et al. Inhibition of Hepatitis C Virus in Mice by a Small Interfering RNA Targeting a Highly Conserved Sequence in Viral IRES Pseudoknot. PLoS One. 2016 Jan 11;11(1):e0146710. doi: 10.1371/journal.pone.0146710. eCollection 2016. PubMed PMID: 26751678.

General Readings:

1. Lázaro CA, Chang M, Tang W, Campbell J, Sullivan DG, Gretch DR, et al. Hepatitis C virus replication in transfected and serum-infected cultured human fetal hepatocytes. *Am J Pathol.* 2007 Feb;170(2):478-89. PubMed PMID: 17255316.