

Anti-HCV NS3 Protein [Hfab-aNS3] Standard Size Ab01222-47.0

This reformatted human antibody was made using the variable domain sequences of the original human IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgA2, Kappa

Clone Number: Hfab-aNS3

Alternative Name(s) of Target: Genome polyprotein; Core protein p21; Capsid protein C; p21; Core protein p19; Envelope glycoprotein E1; gp32; gp35; Envelope glycoprotein E2; NS1; gp68; gp70; p7; Protease NS2-3; p23; Serine protease NS3; Hepacivirin; NS3P; p70; Non-structural protein 4A

UniProt Accession Number of Target Protein: P26662

Published Application(s): helicase assay, ICC, ELISA

Published Species Reactivity: Hepatitis C

Immunogen: Hfab-aNS3 was isolated from a phage display library obtained from the IgG1/kappa repertoire of an HCV-infected patient who suffered from chronic hepatitis.

Specificity: Hfab-aNS3 binds HCV NS3 protein and is directed against a conformational epitope, as it can bind NS3 in ELISA assays but not Western blots.

Application Notes: ELISA was used to demonstrate that Hfab-aNS3 binds to NS3 protein, with the relative affinity found to be in the range of 1 nmol/L (Prabhu et al, 2004). Through helicase assays it was established that Hfab-aNS3 blocks the helicase activity of NS3 protein (Prabhu et al, 2004). Intracellular expression of Hfab-aNS3 inhibits replication and expression of NS3 protein in a replicon cell line, as shown through immunocytochemistry (Prabhu et al, 2004).

Antibody First Published in: Prabhu et al, 2004. Inhibition of Hepatitis C Virus Nonstructural Protein, Helicase Activity, and Viral Replication by a Recombinant Human Antibody Clone Am J Pathol. 2004 Oct; 165(4): 1163-1173. [PMID:15466383](#)

Note on publication: Describes the isolation of the antibody from a phage display library, and its subsequent characterisation through ELISA and activity assays.

Product Form

Size: 50 µg Purified antibody.

Purification:

Affinity Purified using a recombinant lectin column

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.