

PRODUCT INFORMATION SUMMARY

ANTI-HCV (Hepatitis C Virus)

Cat. No. RV300020	Clone A1	Core Protein
Cat. No. RV300220	Clone D4	Non-Structural Protein (NS-4)
Cat. No. RV300320	Clone 2-15	Non-Structural Protein (NS-3)

SPECIFICITY:

Human Hepatitis C Virus. Clone (D4) reacts with the immunodominant region of NS-4a (1689a.a. - 1735a.a.). Clone (2-15) reacts with immunodominant region of NS-3 (1378 a.a. - 1458 a.a.). Clone A1 reacts with capsid protein of HCV (1 a.a. - 142 a.a.)

No cross reactivity between regions (NS-3, NS-4, and capsid) was observed in ELISA testing.

IMMUNOGLOBULIN CHAIN COMPOSITION:

IgG1, Kappa

SOURCE:

Purified murine ascites fluid.

CLONE:

Clone A1 derived from hybridization of murine myeloma (SP2/0) cells with spleen cells from BALB/c mice immunized with purified, synthetic peptide HCV capsid protein.

Clones to NS-3 and NS-4 are derived from hybridization of murine myeloma (SP2/0) cells with spleen cells from BALB/c mice immunized with synthetic peptides of at least 90 residues selected from immunodominant regions.

Anti-NS-3 reacts with NS-3 region 1378 - 1458 a.a.
Anti-NS-4 reacts with NS-4 region 1689 - 1735 a.a.)

PURIFICATION METHOD:

Protein G affinity chromatography.

HANDLING AND STORAGE:

Antibody is provided lyophilized as 0.1 mg in 0.01 M phosphate buffered saline. Product is provided free of preservatives or extraneous protein. Lyophilized product should be stored at 2-8° C or stored in small aliquots at -20° C. Repeated freezing and thawing should be avoided. Reconstitute with 200 uL distilled water or PBS (0.01M pH approx. 7.2). Further dilute in protein (BSA or gelatin) containing medium for use in specific protocol. Add 0.1% sodium azide or other preservative for long-term storage in liquid state.

CHARACTERIZATION AND USE:

Reactive in ELISA and western blotting applications.

Staining of infected cells by flow cytometry or immunohistochemical staining may be achieved.

Paraffin-Embedded Tissue Staining: Clones D4 and 2-15 have been observed to react in paraffin-embedded tissues.

Western Blot: Clone D4 to NS-4 region was used at 100 - 500 ng/mL antibody concentration to react with 50 - 100 ng/lane HCV recombinant antigen.

Clone 2-15 to NS-3 region was used at 4 ug/mL antibody concentration to react with 200 ng/lane synthetic NS-3 antigen.

Clone A1 to core protein: 0.5 - 1 ug/mL antibody used to visualize 0.1 ug/lane recombinant capsid protein and 0.5 ug/lane synthetic capsid protein (1aa. - 142 aa. & 1 aa. - 61 aa, respectively). Also reactive with recombinant, chimeric HCV polyprotein.

Western Blot testing under reducing and non-reducing conditions.

WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

**FOR RESEARCH ONLY.
NOT INTENDED FOR THERAPEUTIC OR DIAGNOSTIC USE.**

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