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Product datasheet for AM09204PU-N

HCV NS3 Mouse Monoclonal Antibody [Clone ID: 133]

Product data:

Product Type:	Primary Antibodies
Clone Name:	133
Applications:	ELISA, WB
Recommended Dilution:	**ELISA:** React with Human Hepatitis C Virus. **Western Blot:** Use of Hepatitis C Virus NS3 antibody (clone 133) at 0.1-1 µg/ml will allow visualization of 0.1 µg/lane of recombinant NS-3 protein and 0.1 µg/lane recombinant Chimeric HCV polyprotein.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Recombinant Chimeric HCV Polyprotein (555 a.a.)
Specificity:	HCV NS-3 antibody (clone 133) reacts with Recombinant NS-3 (aa 1252-1477) and Recombinant Chimeric HCV Polyprotein (60 kDa). **Cross-Reactivity:** No cross reaction with Synthetic Recombinant Capsid Protein C (CPC)+Envelope Protein M (EPM) (core) (aa 1-142), Synthetic CPC (aa 1-61), Synthetic NS-3 (aa 1378-1458) and Synthetic NS-4a Protein (aa 1689-1735).
Formulation:	0.01M PBS, pH 7.2 without preservatives. State: Aff - Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with Double distillated water to adjust the final concentration to 1.0 mg/ml
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.

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Background: HCV is a positive, single-stranded RNA virus in the Flaviviridae family. The genome is approximately 10,000 nucleotides and encodes a single polyprotein of about 3,000 amino acids. The polyprotein is processed by host cell and viral proteases into three major structural proteins including NS3, and several non-structural proteins necessary for viral replication. The NS3 part of the polyprotein displays three enzymatic activities: serine protease, NTPase and RNA helicase.
The NS3 serine proteinase (NS3P) is a non-structural hepatitis C protein responsible for proteolytic processing of other non-structural proteins; because of this, it is also the most extensively studied protein of the Hepatitis C genome. It is responsible for proteolytic processing of the entire downstream region of the HC polyprotein, catalyzing cleavage at the NS3/NS4a, NS4a/NS4b, NS4b/NS5a, and NS5a/NS5b sites to release the mature NS3, NS4a, NS4b, NS5a, and NS5b proteins.For proper function, NS3 requires NS4a as a cofactor, but, interestingly enough, NS3 also cleaves the NS4a protein. The molecular weight of the monomer NS3P is 70 kDa.

Synonyms: Hepatitis C Virus Serine proteiase NS3