

Product datasheet for **AM09194PU-N**

HCV NS3 Mouse Monoclonal Antibody [Clone ID: 12-15]

Product data:

Product Type:	Primary Antibodies
Clone Name:	12-15
Applications:	ELISA, WB
Recommended Dilution:	ELISA: React with human Hepatitis C Virus. Western Blot: Use of Hepatitis C Virus NS3 antibody (clone 12-15) at 1 µg/mL will allow visualization of 0.1 µg/lane of synthetic NS-3 protein under both reducing and non-reducing condition.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A highly antigenic polypeptide consisting of essential sequences of at least 60 residues in length, which were selected from genes encoding the Non-Structural Region 3 protein (NS3) of Chinese HCV strains.
Specificity:	HCV NS3 antibody is specific for Synthetic HCV NS-3 Protein (1378a.a. -1458a.a.). No cross reaction with HCV capsid region and other non-structural regions.
Formulation:	0.01M PBS, pH 7.2 without preservatives. State: Aff - Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with Double distilled 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 proteinase NS3