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# Product datasheet for AM09193PU-N

## HCV NS3 Mouse Monoclonal Antibody [Clone ID: 1-5]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | 1-5 |
| **Applications:** | ELISA, WB |
| **Recommended Dilution:** | **ELISA.**<br>**Western Blot:** Use of Hepatitis C Virus NS3 antibody (clone 1-5) at 4 µg/mL will allow visualization of 200 ng/lane Synthetic NS-3 Protein.<br>Testing is under reducing and non-reducing conditions. |
| **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 NS-3 region of Chinese HCV strains. |
| **Specificity:** | Human Hepatitis C Virus (HCV) non-structural protein NS-3.<br>No cross reaction with HCV capsid region and other non-structural regions can be seen. |
| **Formulation:** | 0.01M PBS, pH 7.2 without preservatives.<br>State: Aff - Purified<br>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.<br>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