OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AM09199PU-N

HCV NS3 Mouse Monoclonal Antibody [Clone ID: 281]

Product data:

Product Type:	Primary Antibodies
Clone Name:	281
Applications:	ELISA, WB
Recommended Dilution:	**ELISA.** **Western Blot:** Use of Hepatitis C Virus NS3 antibody (clone 281) at 0.1-1 µg/ml will allow visualization of 100 ng/lane of both Recombinant Chimeric HCV Polyprotein and Recombinant NS-3 Protein. No reaction can be seen with Synthetic NS-3. Testing is under reducing and non-reducing conditions.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Recombinant Chimeric HCV Polyprotein (555 a.a).
Specificity:	HCV NS-3 antibody (clone 281) reacts with Recombinant NS-3 (aa 1252-1477), Synthetic NS-3 (aa 1378-1458), and Recombinant Chimeric HCV Polyprotein (60 kDa) **Cross-Reactivity:** No cross reaction can be seen with Recombinant Capsid Protein C (CPC)+Envelope Protein M (EPM) (core) (aa 1-142), Synthetic CPC (aa 1-61), 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.

View online »

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