

Mouse mAb to HCV NS5B (clone 10D7)

Catalogue #	A2-426-100
Immunogen:	HCV 1b NS5B
Immunogen Description:	Recombinant Hepatitis C Virus subtype 1b non-structural protein 5B (NS5B) RNA-dependent RNA polymerase (RdRp)
Uniprot ID:	Q9WMX2
Clonality:	Mouse monoclonal
Clone:	10D7
Class:	mIgG1
Reactivity:	Human, HCV subtype 1b NS5B, Epitope mapped to amino acids 92-105 (TPPHSARSKFGYGA)
Application:	ELISA, WB
Protocol:	Optimal conditions for IP should be determined for each particular application. Monoclonal antibody working titer has to be established practically for each particular antigen and assay format
ELISA:	0.8 µg/ml
Purification:	Protein G purification
Buffer:	PBS pH 7.4, with 0.1% sodium azide
Shipping:	This product is shipped in non-frozen liquid form in ambient conditions
Storage:	Store at - 20 ...-70 °C upon receipt. Divide antibody into aliquots prior usage. Avoid multiple freeze-thaw cycles as product degradation may result.
Background:	Non-structural protein 5B (NS5B) represents the RNA-dependent RNA polymerase (RdRp) of Hepatitis C Virus, which is a small positive strand RNA virus in the family Flaviviridae. HCV is a major causative agent of acute and chronic hepatitis, hepatocellular carcinoma and liver

cirrhosis. The single subunit RNA-dependent RNA polymerase is absolutely essential for the viral replication.

References

Nikonov A, Juronen E and Ustav M (2008)
Functional characterization of fingers subdomain-specific monoclonal antibodies inhibiting the hepatitis C virus RNA-dependent RNA polymerase. *J. Biol Chem.* 283(35):24089-102.

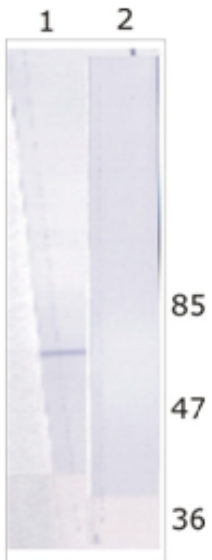


Figure 1. WB analysis of Huh-7 cell line expressing NS5B protein. Line 1. Huh-7 transfected with HCV replicon, Line 2. Huh-7 non-transfected cells.