Mouse mAb to HCV NS5B (clone 6B12)

Catalogue #	A2-420-100
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:	6B12
Class:	mIgG1
Reactivity:	Human, HCV subtype 1b NS5B, Epitope mapped to amino acids 92-105 (TPPHSARSKFGYGA)
Application:	ELISA, WB, IP
Protocol:	Optimal conditions for IP should be determined for each particular application.
IF:	-
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, 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.

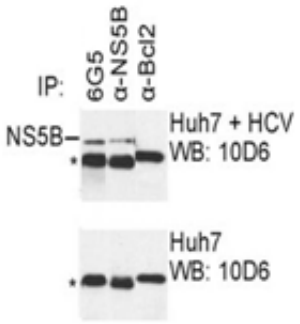

Figure 1. Immunoprecipitation analysis of anti-HCV 1b NS5B monoclonal antibody (6B12). IP was carried out with NS5B specific mAb 6B12 using the lysates of Huh7 cells harbouring selectable subgenomic HCV RNA replicon (upper panel) or plain Huh7 cells (lower panel). NS5B polyclonal antibodies (a-NS5B) and a-Bcl2 mAb, directed against cellular protein, were used as positive and negative controls respectively. Asterisk indicates immunoglobulin heavy chain; protein blots were probed with NS5B specific mAb 10D6**.**

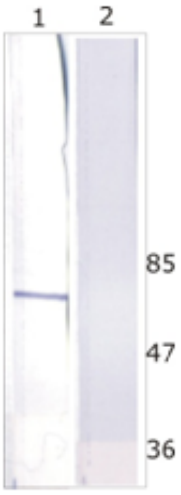

Figure 2. WB analysis of Huh-7 cell line expressing NS5B protein. Lane 1. Huh-7 transfected with HCV replicon, Lane 2. Huh-7 non-transfected cells.