Hepatitis C Virus Core Antigen Antibody (C7-50)

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<thead>
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<th>Tested Applications</th>
<th>Dilution *</th>
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<tr>
<td>Western Blot (WB)</td>
<td>1 µg/ml</td>
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<tr>
<td>Immunofluorescence (IF)</td>
<td>Assay dependent</td>
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<td>Flow Cytometry (FACS)</td>
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<tr>
<td>Immunoprecipitation (IP)</td>
<td>Assay dependent</td>
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<tr>
<td>ELISA (ELISA)</td>
<td>Assay dependent</td>
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<table>
<thead>
<tr>
<th>Published Applications</th>
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<tr>
<td>Western Blot (WB)</td>
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<tr>
<td>Immunocytochemistry (ICC)</td>
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<tr>
<td>ELISA (ELISA)</td>
<td>See publications</td>
</tr>
</tbody>
</table>

Tested Species Reactivity | Published Species Reactivity
--------------------------|--------------------------
Virus (Vs)                | Human (Hu)               
Virus (Vs)                |                         

Hepatitis C Virus (HCV) is the primary cause of non-A, non-B hepatitis and results in most HCV-infected people developing chronic infections, liver cirrhosis and hepatocellular carcinoma. The ~21 kDa core protein of HCV is well conserved among different HCV genotypes and may suppress hepatitis B virus replication in a phosphorylation dependent manner.

Product Specific Information

MA1-080 detects hepatitis C virus (HCV) core protein from transfected human and primate cell lines.

MA1-080 has been successfully used in Western blot, immunoprecipitation, immunofluorescence and ELISA procedures. By Western blot, this antibody detects a single ~21 kDa protein representing HCV core protein in various transfected cell lines. Immunofluorescence staining of HCV core protein in transfected chimp hepatocytes yields a staining pattern consistent with cytoplasmic and vesicular staining.

The MA1-080 immunogen is purified HCV core-GST fusion protein (genotype 1b). This antibody recognizes an epitope between amino acid residues 21-40 of HCV core protein. This sequence is conserved among different HCV strains.

General Information

Hepatitis C virus (HCV) is the primary cause of non-A, non-B hepatitis and results in most HCV-infected people developing chronic infections, liver cirrhosis and hepatocellular carcinoma. The ~21 kDa core protein of HCV is well conserved among different HCV genotypes and may suppress hepatitis B virus replication in a phosphorylation dependent manner.
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No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used in applications where the Product is not intended to, or intended for, human or animal. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is not intended for applications involving pregnant women, infants under 18 months of age, or individuals suffering from any disease or illness.

Publisher: Thermo Fisher Scientific Inc.

39 Western Blot References

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3747 N. Meridian Road Rockford, IL 61105 USA

(800) 874-3723 (815) 968-7316 fax

www.thermo.com/pierce

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MA1-080 was used in immunocytochemistry and western blot to characterize a novel expression system based on yellow fever virus replicons

"Yellow fever virus replicons as an expression system for hepatitis C virus structural proteins."
Author(s): Molenkamp R, Kool EA, Lucassen MA, Greve S, Thijsen JC, Spaan WJ, Bredenbeek PJ
Number of Citations: 13

MA1-080 was used in western blot to develop an efficient method for vector construction based upon ovine adenovirus and to identify a new insertion site for virus rescue and gene expression

"Construction, rescue, and characterization of vectors derived from ovine adenovirus."
Author(s): Löser P, Hofmann C, Both GW, Uckert W, Hillgenberg M
Number of Citations: 3

MA1-080 was used in immunocytochemistry and western blot to examine in detail the relationship of the hepatitis C virus core protein with mitochondria

"Targeting of hepatitis C virus core protein to mitochondria through a novel C-terminal localization motif."
Author(s): Schwer B, Ren S, Pietschmann T, Kartenbeck J, Kaehlcke K, Bartenschlager R, Yen TS, Ott M
Number of Citations: 1

MA1-080 was used in western blot to investigate the features of hepatitis C virus capsid formation through de novo cell-free assembly

"Unique features of hepatitis C virus capsid formation revealed by de novo cell-free assembly."
Author(s): Klein KC, Poljak SJ, Lingappa JR
Number of Citations: 1

MA1-080 was used in western blot and immunoprecipitation to determine the role of COX-2 expression in hepatitis C virus pathogenesis.

"Hepatitis C virus core protein suppresses NF-kappaB activation and cyclooxygenase-2 expression by direct interaction with IkappaB kinase beta."
Author(s): Joo M, Hahn YS, Kwon M, Sadikot RT, Blackwell TS, Christman JW
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Author(s): Herzer K, Weyer S, Krammer PH, Galle PR, Hofmann TG
Number of Citations: 1

MA1-080 was used in western blot to study the assembly and release of infectious hepatitis C virus from cultured cells.

"Compensatory mutations in E1, p7, NS2, and NS3 enhance yields of cell culture-infectious intergenotypic chimeric hepatitis C virus."
Author(s): Yi M, Ma Y, Yates J, Lemon SM
Number of Citations: 1

MA1-080 was used in immunoprecipitation and western blot to establish transgenic mouse lines with inducible expression of hepatitis C virus proteins

"Generation of inducible hepatitis C virus transgenic mouse lines."
Author(s): Ernst E, Schöng K, Bugert JJ, Bläker H, Pfaff E, Stremmel W, Encke J
Number of Citations: 1

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MA1-080 was used in western blot to identify the specific Toll-like receptor agonists and RNA viruses that can induce the expression of NKG2DLs on mDCs


"Induction of NKG2D ligands on human dendritic cells by TLR ligand stimulation and RNA virus infection."

Author(s): Ebihara T, Masuda H, Akazawa T, Shingai M, Kikuta H, Ariya T, Matsumoto M, Seya T

Number of Citations: 1


MA1-080 was used in western blot to study the role of hepatitis C virus core protein in the changes of mitochondrial function

*J Viral Hepat.* 2010 Nov;17(11):784-93.

"Role of Hepatitis C virus core protein in viral-induced mitochondrial dysfunction."

Author(s): Wang T, Campbell RV, Yi MK, Lemon SM, Weinman SA

Number of Citations: 3


MA1-080 was used in western blot to investigate the mechanism for the regulatory effect of hepatitis C virus on and transforming growth factor beta 1 in hepatic fibrosis


"Hepatitis C virus regulates transforming growth factor beta1 production through the generation of reactive oxygen species in a nuclear factor kappaB-dependent manner."

Author(s): Lin W, Tsai WL, Shao RX, Wu G, Peng LF, Barlow LL, Chung WJ, Zhang L, Zhao H, Jang JY, Chung RT

Number of Citations: 12


MA1-080 was used in western blot to identify the hepatoprotective component in silymarin


"Identification of hepatoprotective flavonolignans from silymarin."


Number of Citations: 13


MA1-080 was used in western blot to investigate the effect of suppressor of cytokine signaling 3 SOCS3 on hepatitis C virus replication and its mechanism


"Suppressor of cytokine signaling 3 suppresses hepatitis C virus replication in an mTOR-dependent manner."

Author(s): Shao RX, Zhang L, Peng LF, Sun E, Chung WJ, Jang JY, Tsai WL, Hypolite G, Chung RT

Number of Citations: 4


MA1-080 was used in western blot to investigate the effect of miRNA miR-122 on hepatitis C virus translation and production


"Regulation of hepatitis C virus translation and infectious virus production by the microRNA miR-122."

Author(s): Jangra RK, Yi M, Lemon SM

Number of Citations: 1


MA1-080 was used in immunocytochemistry and western blot to investigate the role of La protein in hepatitis C virus replication


"La protein required for internal ribosome entry site-directed translation is a potential therapeutic target for hepatitis C virus replication."


Number of Citations: 1


MA1-080 was used in western blot to investigate the influence of iron on hepatitis C virus replication


"Iron inhibits replication of infectious hepatitis C virus in permissive Huh7.5.1 cells."

Author(s): Fillebeen C, Pantopoulos K

Number of Citations: 2

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Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Product documentation, specifications and accompanying package inserts (“Documentation”). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty does not extend to anyone other than Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. If not otherwise specified, this warranty is limited to repair, replacement of or refund for the non-conforming Product(s) at Seller’s sole option. This warranty is limited to repair, replacement and/or refund of any type of consumption by or application to humans or animals. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is to be used for no other purpose, including without limitation, standards, commerical uses, in any diagnostic uses, or in vitro or in vivo diagnostic uses, or any type of consumption by or application to humans or animals.

Number of Citations: 1

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Number of Citations: 7
MA1-080 was used in western blot to study the role of Hepatitis C virus NS2 in viral particle assembly and its mechanism

"Hepatitis C virus NS2 coordinates virus particle assembly through physical interactions with the E1-E2 glycoprotein and NS3-NS4A enzyme complexes."
Author(s): Stapleford KA, Lindenbach BD
Number of Citations: 3

MA1-080 was used in western blot to study the role of protein kinase D in HCV secretion via its effects on ceramide transfer protein and oxysterol binding protein.

"Protein kinase D negatively regulates hepatitis C virus secretion through phosphorylation of oxysterol-binding protein and ceramide transfer protein."
Author(s): Amako Y, Syed GH, Siddiqui A
Number of Citations: 3

MA1-080 was used in western blot to produce non-replicative, yet infectious, HCV virions

"A new model to produce infectious hepatitis C virus without the replication requirement."
Author(s): Tryatni M, Berger EA, Saunier B
Number of Citations: 1

MA1-080 was used in western blot to study the mechanism of carcinoma development following hepatitis C infection

"Hepatitis C virus infection causes cell cycle arrest at the level of initiation of mitosis."
Author(s): Kannan RP, Hensley LL, Evers LE, Lemon SM, McGivern DR
Number of Citations: 8

MA1-080 was used in western blot to investigate the effectiveness of vitamin D for HCV treatment

"Vitamin D: an innate antiviral agent suppressing hepatitis C virus in human hepatocytes."
Number of Citations: 1

MA1-080 was used in western blot to investigate microRNAs affected by HCV infection in HuH7 cells

"Alterations in microRNA expression profile in HCV-infected hepatoma cells: involvement of miR-491 in regulation of HCV replication via the PI3 kinase/Akt pathway."
Author(s): Ishida H, Tatsumi T, Hosui A, Nawa T, Kodama T, Shimizu S, Hikita H, Hiramatsu N, Kanto T, Hayashi N, Takehara T
Number of Citations: 1

MA1-080 was used in immunocytochemistry and western blot to investigate the mechanism for HCV-induced autophagy

"Rab5 and class III phosphoinositide 3-kinase Vps34 are involved in hepatitis C virus NS4B-induced autophagy."
Author(s): Su WC, Chao TC, Huang YL, Weng SC, Jeng KS, Lai MM
Number of Citations: 1

MA1-080 was used in western blot to identify host genes involved in producing the antiviral effect of interferon-alpha

"A functional genomic screen reveals novel host genes that mediate interferon-alpha’s effects against hepatitis C virus."
Number of Citations: 0

28 Immunocytochemistry References

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</table>
| Hu / 0             | MA1-080 was used in immunocytochemistry to investigate the effect of HCV infection on chronic ER stress and unfolded protein response.  
"HCV causes chronic endoplasmic reticulum stress leading to adaptation and interference with the unfolded protein response."  
Author(s): Merquiol E, Uzi D, Mueller T, Goldenberg D, Nahmias Y, Xavier RJ, Tirosh B, Shibolet O  
Number of Citations: 1  
| Hu / 1:300         | MA1-080 was used in immunocytochemistry to evaluate the effect of ITX 5061 on HCV infection in combination with other HCV antivirals.  
"Evaluation of ITX 5061, a scavenger receptor B1 antagonist: resistance selection and activity in combination with other hepatitis C virus antivirals."  
Author(s): Zhu H, Wong-Staal F, Lee H, Syder A, McKelvy J, Schooley RT, Wyles DL  
Number of Citations: 1  
| Vs / Not Cited     | MA1-080 was used in ELISA, immunocytochemistry and western blot to produce and characterize three new anti-HCV core antigen monoclonal antibodies.  
"Characterization of three novel monoclonal antibodies against hepatitis C virus core protein."  
Author(s): Moradpour D, Wakita T, Tokushige K, Carlson RI, Krawczynski K, Wands JR  
Number of Citations: 1  
| Vs / 10 ug/ml       | MA1-080 was used in immunocytochemistry and western blot to characterize cell lines expressing hepatitis C virus core antigen.  
"Characterization of cell lines allowing tightly regulated expression of hepatitis C virus core protein."  
Author(s): Moradpour D, Englert C, Wakita T, Wands JR  
Number of Citations: 1  
| Vs / Not Cited     | MA1-080 was used in immunocytochemistry and western blot to characterize a novel expression system based on yellow fever virus replicons.  
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Number of Citations: 1  
MA1-080 was used in immunocytochemistry to investigate cell culture-adaptive NS5B mutations during subculturing of HCV JFH1 in Huh-7 cells

"Cell culture-adaptive mutations in the NS5B gene of hepatitis C virus with delayed replication and reduced cytopathicity."

Author(s): Kang JI, Kim JP, Waki T, Ahn BY
Number of Citations: 1

MA1-080 was used in immunocytochemistry to investigate the mechanism for the effect of hepatitis C virus on DNA repair inhibition

"Hepatitis C virus-induced up-regulation of protein phosphatase 2A inhibits histone modification and DNA damage repair."
Author(s): Duong FH, Christen V, Lin S, Heim MH
Number of Citations: 1

MA1-080 was used in immunocytochemistry to investigate the effect of a fragment of hepatitis C virus E2 protein on hepatitis C virus entry

"A peptide derived from hepatitis C virus E2 envelope protein inhibits a post-binding step in HCV entry."
Number of Citations: 1

MA1-080 was used in immunocytochemistry and immunoprecipitation to investigate the importance of DDX6 in hepatitis C virus replication

"DDX6 (Rck/p54) is required for efficient hepatitis C virus replication but not for internal ribosome entry site-directed translation."
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"La protein required for internal ribosome entry site-directed translation is a potential therapeutic target for hepatitis C virus replication."
Number of Citations: 1

MA1-080 was used in immunocytochemistry to evaluate a hepatitis C virus tissue culture model

"Persistent growth of a human plasma-derived hepatitis C virus genotype 1b isolate in cell culture."
Number of Citations: 6

MA1-080 was used in immunocytochemistry and western blot to investigate the importance of p7 in organelle pH regulation and hepatitis C virus production

PLoS Pathog. 2010 Sep 2;6(9):e1001087.
"Intracellular proton conductance of the hepatitis C virus p7 protein and its contribution to infectious virus production."
Author(s): Wozniak AL, Griffin S, Rowlands D, Harris M, Yi M, Lemon SM, Weinman SA
Number of Citations: 1

MA1-080 was used in immunocytochemistry to evaluate a hepatitis C virus entry inhibitor

PLoS Pathog. 2010 Sep 2;6(9):e1001086.
"A novel small molecule inhibitor of hepatitis C virus entry."
Number of Citations: 8

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MA1-080 was used in immunocytochemistry to study the anti-viral activity of polyunsaturated liposomes.

"Polyunsaturated liposomes are antiviral against hepatitis B and C viruses and HIV by decreasing cholesterol levels in infected cells."
Author(s): Pollock S, Nichita NB, Böhmer A, Radulescu C, Dwek RA, Zitzmann N
Number of Citations: 2

MA1-080 was used in immunocytochemistry and western blot to investigate the role of hepatitis C virus NS2 protein in the viral assembly and the mechanism

"Hepatitis C virus NS2 protein serves as a scaffold for virus assembly by interacting with both structural and nonstructural proteins."
Author(s): Ma Y, Anantpadma M, Timpe JM, Shannugam S, Singh SM, Lemon SM, Yi M
Number of Citations: 1

MA1-080 was used in immunocytochemistry to study the effect of hepatitis C virus core protein on DDX3 function

"Hepatitis C virus core protein abrogates the DDX3 function that enhances IPS-1-mediated IFN-beta induction."
Number of Citations: 1

MA1-080 was used in immunocytochemistry and immunoprecipitation to study the use of viral protease-activated zymogen toxins as potential anti-viral therapeutics.

"Engineered toxins "zymoxins" are activated by the HCV NS3 protease by removal of an inhibitory protein domain."
Number of Citations: 2

MA1-080 was used in immunocytochemistry to investigate the ability of PSI-352938 to inhibit hepatitis C virus replicon RNA synthesis

"Inhibition of hepatitis C virus replicon RNA synthesis by PSI-352938, a cyclic phosphate prodrug of 2',3'-deoxy-2'-fluoro-2'-C-methylguanosine."
Number of Citations: 4

MA1-080 was used in immunocytochemistry to investigate the SOCS transactivation by hepatitis C virus

"Effects of hepatitis C virus on suppressor of cytokine signaling mRNA levels: comparison between different genotypes and core protein sequence analysis."
Author(s): Pascarella S, Clément S, Guilloux K, Conzelmann S, Penin F, Negro F
Number of Citations: 2

MA1-080 was used in immunocytochemistry to optimize phage display methods for membrane proteins

Protein Eng Des Sel. 2011 Sep;24(9):679-89.
"Efficient production of antibodies against a mammalian integral membrane protein by phage display."
Author(s): Hötzel I, Chiang V, Dao J, Pantuha H, Maun HR, Kapadia SB
Number of Citations: 1

MA1-080 was used in immunocytochemistry to develop a cell culture-adapted hepatitis C virus with a longer lifespan in cells

"Generation of a cell culture-adapted hepatitis C virus with longer half life at physiological temperature."
Author(s): Kim CS, Keum SJ, Jang SK
Number of Citations: 1
MA1-080 was used in immunocytochemistry and western blot to investigate the mechanism for HCV-induced autophagy.


"Rab5 and class III phosphoinositide 3-kinase Vps34 are involved in hepatitis C virus NS4B-induced autophagy."

Author(s): Su WC, Chao TC, Huang YL, Weng SC, Jeng KS, Lai MM

Number of Citations: 1


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MA1-080 was used in immunocytochemistry to investigate the incorporation of CD59 into HCV virions.


"CD59 incorporation protects hepatitis C virus against complement-mediated destruction."


Number of Citations: 1


---

MA1-080 was used in immunocytochemistry to investigate the antiviral effect of tetherin against hepatitis C virus release from infected hepatocytes.


"Tetherin has negligible activity in restricting hepatitis C virus in hepatocytes."

Author(s): Ye L, Wang X, Li J, Liu J, Ramirez SH, Wu J, Ho W

Number of Citations: 0


---

MA1-080 was used in immunocytochemistry to study the mechanism for the drug-resistance of direct-acting antiviral agents in chronic hepatitis C.


"Ketoamide resistance and hepatitis C virus fitness in val55 variants of the NS3 serine protease."

Author(s): Welsch C, Schweizer S, Shinamaki T, Domingues FS, Kim S, Lemon SM, Antes I

Number of Citations: 1


---

MA1-080 was used in immunocytochemistry to investigate hepatitis C virus cycle in Matrigel-embedded Huh-7.5 cell cultures.


"Matrigel-embedded 3D culture of Huh-7 cells as a hepatocyte-like polarized system to study hepatitis C virus cycle."


Number of Citations: 1


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1 Immunohistochemistry Reference

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Author(s): van Pelt JF, Seven H, Crabbé T, Eetveldt AV, Verslype C, Roskams T, Favery J Number of Citations: 1


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6 Immunoprecipitation References

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| Hu / Not Cited     | MA1-080 was used in western blot and immunoprecipitation to investigate the role of hepatitis C virus core protein in blocking the interferon signaling process. J Virol. 2006 Sep;80(18):9226-35. "Hepatitis C virus core protein blocks interferon signaling by interaction with the STAT1 SH2 domain."

Author(s): Lin W, Kim SS, Yeung E, Kamegaya Y, Blackard JT, Kim KA, Holtzman MJ, Chung RT Number of Citations: 1

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Author(s): Jangra RK, Yi M, Lemon SM
Number of Citations: 1

MA1-080 was used in immunoprecipitation and western blot to investigate the different signalling pathways for the tumorigenic effect of hepatitis C virus and alcohol.

"Hepatitis C virus and alcohol: same mitotic targets but different signaling pathways."
Author(s): Alisi A, Ghidinelli M, Zerbini A, Missale G, Balsano C
Number of Citations: 1

MA1-080 was used in immunocytochemistry and immunoprecipitation to study the use of viral protease-activated zymogen toxins as potential anti-viral therapeutics.

"Engineered toxins "zymoxins" are activated by the HCV NS3 protease by removal of an inhibitory protein domain."
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### 1 ELISA Reference

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