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Anti-Hepatitis Virus (Strain A59) Nonstructural Protein 9 (nsp9) (MOUSE) Monoclonal Antibody

Hepatitis Virus A59 Nonstructural Protein 9 Antibody
Catalog # ASR4178

Specification

Anti-Hepatitis Virus (Strain A59) Nonstructural Protein 9 (nsp9) (MOUSE) Monoclonal Antibody - Product Information

Host	**Mouse**
Conjugate	**Unconjugated**
Target Species	**Hepatitis Virus**
Reactivity	**Mouse**
Clonality	**Monoclonal**
Application	**WB, I, LCI**
Application Note	**This antibody has been tested for use in immunofluorescence microscopy and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 13 kDa in size corresponding to mature MHV-A59 nsp9 by western blotting in the appropriate cell lysate or extract. For immunofluorescence microscopy, Vero-E6 cells were grown on glass slides followed by infection with MHV-A59 strain and fixation with PBS/3% PFA. After washing and permeabilization of the fixed cells, antibody incubation was performed in PBS/5% FCS for 30 min.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**This antibody was produced in mice by repeated immunizations with E.coli derived full-length MHV-A59 nsp9 protein. This protein is part of the viral replicase polyprotein.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-Hepatitis Virus (Strain A59) Nonstructural Protein 9 (nsp9) (MOUSE) Monoclonal Antibody - Additional Information

Other Names
1489749

Purity
This antibody is directed against the MHV-A59 nsp9 protein. This product was purified from tissue culture supernatant fluid by Protein A chromatography. No cross reactivity occurs with SARS CoV nsp9. Cross reactivity with homologues from other sources has not been tested.

Storage Condition
Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-Hepatitis Virus (Strain A59) Nonstructural Protein 9 (nsp9) (MOUSE) Monoclonal Antibody - Protein Information

Name 1a

Function
The papain-like proteinase 1 (PL1-PRO) and papain-like proteinase 2 (PL2-PRO) are responsible for the cleavages located at the N-terminus of the replicase polyprotein. In addition, PLP2 possesses a deubiquitinating/deISGylating activity and processes both 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains from cellular substrates. Antagonizes innate immune induction of type I interferon by blocking the phosphorylation, dimerization and subsequent nuclear translocation of host IRF-3 (By similarity).

Cellular Location
[Papain-like protease nsp3]: Host membrane; Multi-pass membrane protein [Non-structural protein 6]: Host membrane; Multi-pass membrane protein [Non-structural protein 8]: Host cytoplasm, host perinuclear region. Note=nsp7, nsp8, nsp9 and nsp10 are localized in cytoplasmic foci, largely perinuclear. Late in infection, they merge into confluent complexes [Non-structural protein 10]: Host cytoplasm, host perinuclear region. Note=nsp7, nsp8, nsp9 and nsp10 are localized in cytoplasmic foci, largely perinuclear. Late in infection, they merge into confluent complexes

Anti-Hepatitis Virus (Strain A59) Nonstructural Protein 9 (nsp9) (MOUSE) Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Hepatitis Virus (Strain A59) Nonstructural Protein 9 (nsp9) (MOUSE) Monoclonal Antibody - Images

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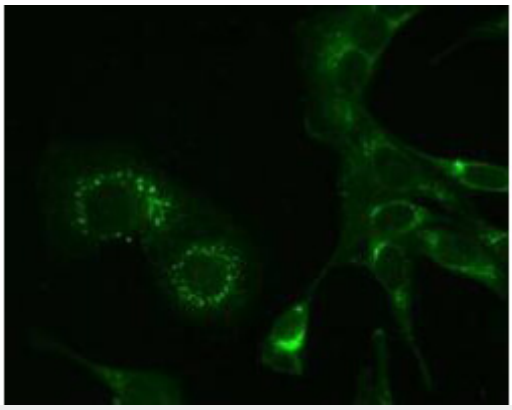

Immunofluorescence microscopy using Rockland Immunochemical's anti-MHV-A59 nsp9 antibody, 6-h post infection in mouse L cells. Cells were fixed in 3% para-formaldehyde. For detection Cy2 conjugated Goat-anti-Mouse IgG MX10 (610-111-121) was used. Personal Communication, Eric Snijder, Leiden University Medical Center, Leiden, Netherlands.

Anti-Hepatitis Virus (Strain A59) Nonstructural Protein 9 (nsp9) (MOUSE) Monoclonal Antibody - Background

The nonstructural protein 9 (nsp9) is one of the Mouse hepatitis virus replicase cleavage products, encoded by ORF1a. Nsp9 is an RNA-binding protein that is thought to be part of the viral replication complex, which is associated with intracellular membranes.