Anti-Hepatitis Virus (Strain A59) Nonstructural Protein 9 (nsp9) (MOUSE) Monoclonal Antibody - 200-301-A56

Code: 200-301-A56 **Size:** 100 µg

Product Description: Anti-Hepatitis Virus (Strain A59) Nonstructural Protein 9 (nsp9) (MOUSE) Monoclonal Antibody - 200-301-A56

Concentration: 2.1 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Mouse
Gene Name	NSP9
Species Reactivity	mouse
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
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.
Synonyms	MHV-A59 nsp9 protein antibody
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.
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.
Purity And Specificity	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.
Assay Dilutions	User Optimized
WESTERN BLOT	1:1,000
IFMICROSCOPY	1:1,000
OTHER ASSAYS	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
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.
General Reference	Ziebuhr, J., Snijder, E. J., and Gorbalenya, A. E. (2000). Virus-encoded proteinases and proteolytic processing in the Nidovirales. J. Gen. Virol. 81:853-879. Snijder, E. J., Bredenbeek, P.J. , Dobbe, J.C., Thiel, V., Ziebuhr, J., Poon, L. L. M., Guan, Y., Rozanov, M., Spaan, W. J. M. and Gorbalenya, A. E. (2003) Unique and conserved features of genome and proteome of SARS-coronavirus, an early split-off from the coronavirus group 2 lineage. J. Mol. Biol. 331:991-1004. Egloff, M. P., Ferron, F., Campanacci, V., Longhi, S., Rancurel, C., Dutartre, H., Snijder, E. J., Gorbalenya, A. E., Cambillau, C. and Canard, B. (2004). The severe acute respiratory syndrome-coronavirus replicative protein nsp9 is a single-stranded RNA-binding subunit unique in the RNA virus world. Proc. Natl. Acad. Sci. U. S. A. 101:3792-3796.
Related Products	

000-000-264NP NFKB p65 (Rel A) S276 CONTROL PEPTIDE - 000-000-264NP

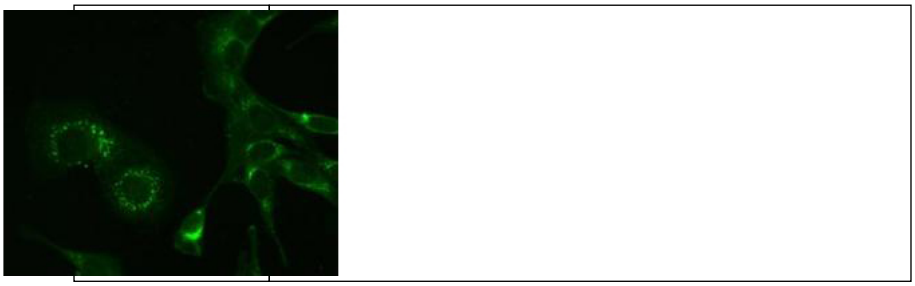
009-001-301	IL-1ß Human Recombinant Protein - 009-001-301
009-001-310	IL-6 Human Recombinant Protein - 009-001-310
010-001-310	IL-6 Mouse Recombinant Protein - 010-001-310

Related Links

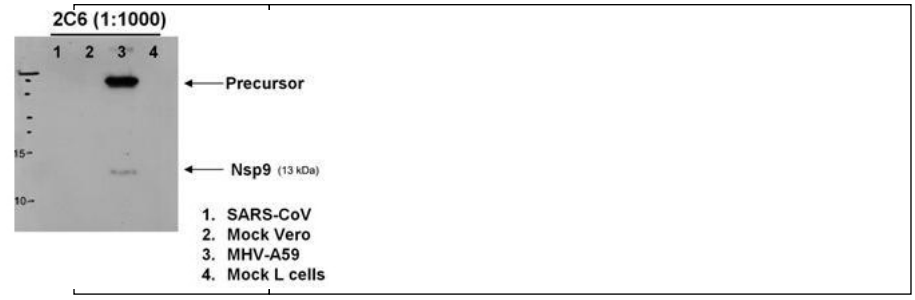
NCBI	http://www.ncbi.nlm.nih.gov/protein/25121567
NCBI - 25121567	http://www.ncbi.nlm.nih.gov/protein/25121567
UniProt - P0C6V0	http://www.uniprot.org/uniprot/P0C6V0
Gene ID - 1489749	http://www.ncbi.nlm.nih.gov/gene/1489749

Images

1 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.



2 Western blotting using Rockland's anti-MHV-A59 nsp9 antibody to detect protein in various lysates, 6h post MHV infection. Lane 1 shows no cross-reactivity with SARS-CoV-infected Vero cells. Specific reactivity against MHV-A59 nsp9 from infected mouse L cells is shown in lane 3. Negative controls (lanes 2 and 4) show no staining. Personal Communication, Eric Snijder, Leiden University Medical Center, Leiden, Netherlands.



Disclaimer

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