

Datasheet for 200-301-A56**Hepatitis Virus A59 Nonstructural Protein 9 Antibody****Overview**

Description:	Anti-Hepatitis Virus (Strain A59) Nonstructural Protein 9 (nsp9) (MOUSE) Monoclonal Antibody - 200-301-A56
Item No.:	200-301-A56
Size:	100 µg
Applications:	IF, WB
Reactivity:	Mouse
Host Species:	Mouse

Product Details

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.
Synonyms:	mouse anti-Hepatitis Virus A59 Nonstructural Protein 9 Antibody, mouse anti-MHV-A59 nsp9 protein antibody
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	2C6.H1
Format:	IgG2b

Target Details

Gene Name:	1a
Reactivity:	Mouse
Immunogen Type:	Native Protein
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.

Purity/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.
Relevant Links:	• NCBI - 25121567 • UniProtKB - P0C6V0 • GeneID - 1489749

Application Details

Tested Applications:	IF, WB
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1:1,000
WB:	1:1,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	2.112 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

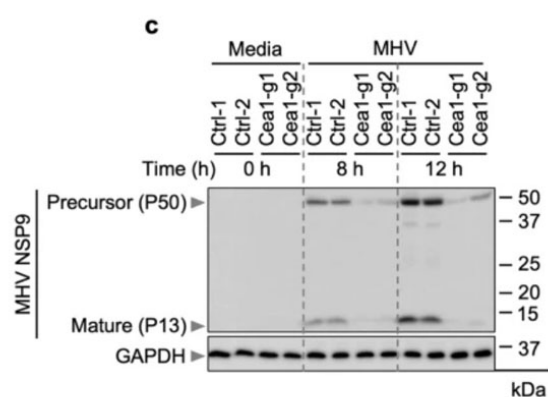
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

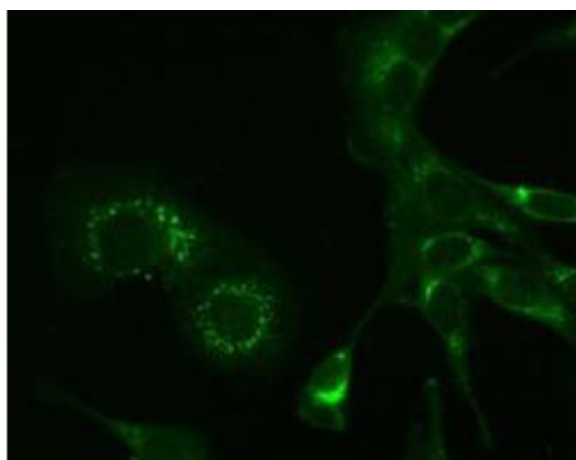
Expiration: Expiration date is one (1) year from date of receipt.

Images



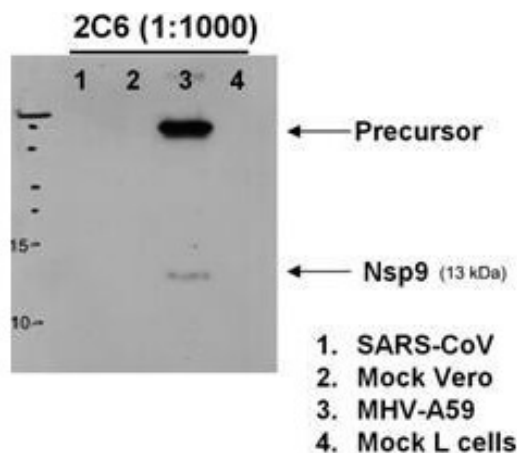
Western Blot

C. Immunoblot analysis of (p/n 200-301-A56, 1:1000) non-structural protein 9 (NSP9) precursor (P50 and P37) and mature forms (P13) in iBMDMs following the indicated treatment. Blots were reprobed for GAPDH to serve as the internal control. Fig 4. PMID: 37864059.



Immunofluorescence Microscopy

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.



Western Blot

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. Negative controls (lanes 2 and 4) show no staining. Specific reactivity against MHV-A59 nsp9 from infected mouse L cells is shown in lane 3. Personal Communication, Eric Snijder, Leiden University Medical Center, Leiden, Netherlands.

References

- Malireddi, R.K.S., Bynigeri, R.R., Mall, R. et al. Inflammatory cell death, PANoptosis, screen identifies host factors in coronavirus innate immune response as therapeutic targets. *Commun Biol* (2023)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.