

## Datasheet for 100-401-A53

## Sars-Cov Nonstructural Protein 8 Antibody

### Overview

<b>Description:</b>	Anti-SARS-CoV Nonstructural Protein 8 (nsp8) (RABBIT) Antibody - 100-401-A53
<b>Item No.:</b>	100-401-A53
<b>Size:</b>	100 µL
<b>Applications:</b>	IF, WB
<b>Reactivity:</b>	SARS-CoV
<b>Host Species:</b>	Rabbit

### Product Details

<b>Background:</b>	The nonstructural protein 8 (nsp8) is one of the SARS-Coronavirus replicase cleaving products, encoded by ORF1a. Nsp8 is thought to be part of the viral replication complex, which is associated with intracellular membranes. No specific information on the function of nsp8 is available. Anti-SARS-CoV Nonstructural Protein 8 (nsp8) Antibody is useful for researchers interested in viral research.
<b>Synonyms:</b>	rabbit anti-Sars-Cov Nonstructural Protein 8 Antibody, Replicase polyprotein 1a, ORF1a polyprotein, nsp8
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	Antiserum

### Target Details

<b>Gene Name:</b>	1a
<b>Reactivity:</b>	SARS-CoV
<b>Immunogen Type:</b>	Recombinant Protein
<b>Immunogen:</b>	This whole rabbit serum was produced by repeated immunizations with a purified His- tagged recombinant protein corresponding to full-length SARS-Coronavirus nsp8.
<b>Purity/Specificity:</b>	This antibody is directed against SARS-Coronavirus nsp8 protein. The product is neat antiserum. Cross reactivity with homologues from other sources has not been determined.

<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">NCBI - 30124074</a></li><li>• <a href="#">UniProtKB - P0C6U8</a></li><li>• <a href="#">GeneID - 1489680</a></li></ul>
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## Application Details

<b>Tested Applications:</b>	IF, WB
<b>Application Note:</b>	This antibody has been tested for use in immunofluorescence microscopy, immunoelectron microscopy, immunoprecipitation and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 22 kDa in size corresponding to SARS-CoV nsp8 by western blotting in the appropriate cell lysate or extract. For immunofluorescence microscopy, Vero-E6 cells, grown on glass slides, were infected with SARS-CoV-Fr1 strain for 1 h at 37°C. Infection occurred in PBS/DEAE/2% FCS followed by exchange to EMEM/25mM HEPES/2% FCS. Cells were fixed with PBS/3% PFA. After washing fixed cells, antibody incubation was performed in PBS/5% FCS for 30 min.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>IF:</b>	1:300
<b>IP:</b>	1:60
<b>WB:</b>	1:1,000

## Formulation

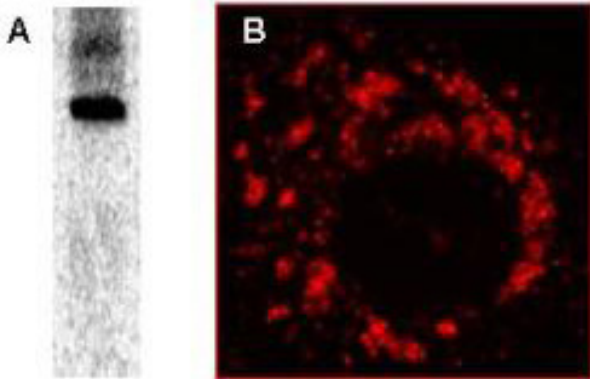
<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	85 mg/mL by Refractometry
<b>Buffer:</b>	None
<b>Preservative:</b>	0.01% (w/v) Sodium Azide
<b>Stabilizer:</b>	None

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	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



### Immunofluorescence Microscopy

Immunoprecipitation followed by western blotting using Rockland's Anti-nsp8 shows a predominant band at 21.8 kDa corresponding to full length SARS protein (panel A). Immunofluorescence Microscopy using anti-nsp8 6-h post infection of Vero-E6 cells (Panel B). For detection Cy3 conjugated Goat-anti-Rabbit IgG MX (611-104-122) was used. Personal Communication, Eric Snijder, Leiden University Medical Center, Leiden, Netherlands.

## References

- Shi FS et al. Expression Profile and Localization of SARS-CoV-2 Nonstructural Replicase Proteins in Infected Cells. *Microbiol Spectr.* (2022)

## 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.