Product Datasheet

CRISPR-Cas9 Antibody (7A9-3A3) - N-Terminus - Azide and BSA Free NBP2-80679

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com

technical@novusbio.com

Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at: www.novusbio.com/NBP2-80679

Updated 4/13/2025 v.20.1

Earn rewards for product reviews and publications.

Submit a publication at www.novusbio.com/publications Submit a review at www.novusbio.com/reviews/destination/NBP2-80679

NBP2-80679

CRISPR-Cas9 Antibody (7A9-3A3) - N-Terminus - Azide and BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	7A9-3A3
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	158.4 kDa
Product Description	
Host	Mouse
Gene ID	901176
Species	Mouse, Bacteria, Bovine, Chicken, Fungi
Reactivity Notes	Mouse reactivity reported in multiple pieces of scientific literature.
Immunogen	This CRISPR-Cas9 antibody (7A9-3A3) - N-Terminus was raised against Recombinant Cas9 within the N-terminal region of Streptococcus pyogene. [Uniprot: Q99ZW2].
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Immunohistochemistry Whole-Mount, Knockout Validated
Recommended Dilutions	Western Blot 1:1000, Simple Western, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:500, Immunoprecipitation, Immunohistochemistry-Frozen reported in scientific literature (PMID 28153089), Immunohistochemistry Whole-Mount, Knockout Validated
Application Notes	IF and IHC use of CRISPR-Cas9 antibody (clone 7A9-3A3) on 4% formaldehyde fixed and 20um thick frozen-/cryo-sections reported in scientific literature (PMID: 28153089)

Images

Western Blot: CRISPR-Cas9 Antibody (7A9-3A3) - N-Terminus - Azide and BSA Free [NBP2-80679] - Analysis of lysate from Cas9 transfected HEK-293T cells using Cas9 antibody clone 7A9-3A3 at 2ug/ml concentration. The signal was developed using HRP-labelled anti-mouse secondary antibody and ECL based detection. Observed molecular weight is ~158 kDa. Image from the standard format of this antibody.

-
·



Immunocytochemistry/Immunofluorescence: CRISPR-Cas9 Antibody (7A9-3A3) - N-Terminus - Azide and BSA Free [NBP2-80679] - Hela cells were transiently transfected with an N-terminally Flag-tagged S. pyogenes Cas9 expression vector. The cells were stained with the Cas9 antibody followed by anti mouse-AF488 coupled secondary antibody. Nuclei were counter-stained with Hoechst 33342. Image from the standard format of this antibody.

Page 2 of 4 v.20.1 Updated 4/13/2025





Immunohistochemistry-Frozen: CRISPR-Cas9 Antibody (7A9-3A3) - N-Terminus - Azide and BSA Free [NBP2-80679] - Analysis of a formalin fixed 20um thick frozen section of mouse brain with GBM xenograft tumor areas (GBM cells over expressing SpyCas9 through lentivirus infection). CRISPR-Cas9 antibody (clone 7A9-3A3) was used at 1:50 dilution. The signal was detected

Western Blot: CRISPR-Cas9 Antibody (7A9-3A3) - N-Terminus - Azide and BSA Free [NBP2-80679] - 20 ug whole cell lysates from control MEF (MEF-WT) and MEF-Cas9 stable cell line. CRISPR-Cas9 antibody (clone 7A9-3A3) was used at 1:1000 dilution. Observed molecular weight is ~158 kDa. Image submitted via verified customer review. Image from the standard format of this antibody.

Immunocytochemistry/Immunofluorescence: CRISPR-Cas9 Antibody (7A9-3A3) - N-Terminus - Azide and BSA Free [NBP2-80679] - Analysis of Crispr-Cas9 transfected HEK293 cells using CRISPR-Cas9 antibody (clone 7A9-3A3). Red staining represents CRISPR-Cas9 positivity while DAPI stained nuclei are visible in blue color. Image submitted via verified customer review. Image from the standard format of this antibody.

www.novusbio.com







Simple Western: CRISPR-Cas9 Antibody (7A9-3A3) - N-Terminus -Azide and BSA Free [NBP2-80679] - Image shows a specific band for Cas9 (observed molecular weight ~158 kDa) in HeLa Cas9 lysate but not in Hela WT lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Image from the standard format of this antibody.



Immunoprecipitation: CRISPR-Cas9 Antibody (7A9-3A3) - N-Terminus -Azide and BSA Free [NBP2-80679] - HEK293T expressing N-terminally Flag-tagged S.pyogenes Cas9 were lysed 72h post transfection by resuspending the cells in Hunt buffer and subjecting to 3 freeze-thaw cycles in liquid nitrogen/ice. Proteins were immunoprecipitated from 100ug of whole cell lysate for 1h at 4C with Cas9 supernatant followed by incubation for 1h at 4C with a 1:1 mixture of protein A/G sepharose beads, or for 2h at 4C with Cas9 ab crosslinked to a 1:1 mixture of protein A/G sepharose beads. Beads were washed 2x with Hunt buffer and 1x with TBS. Bound proteins were eluted by boiling in Laemmli, separated by SDS-PAGE and transferred to nitrocellulose. Membrane was blocked, incubated with Cas9 ab, incubated with HRP anti-mouse secondary. *IgG heavy chain Image from the standard format of this antibody.



Publications

Pavani R, Tripathi V, Vrtis KB et Al. Structure and repair of replication-coupled DNA breaks Science 2024-11-27 [PMID: 38900911]

Giordano Reginato, Maria Rosaria Dello Stritto, Yanbo Wang, Jingzhou Hao, Raphael Pavani, Michael Schmitz, Swagata Halder, Vincent Morin, Elda Cannavo, Ilaria Ceppi, Stefan Braunshier, Ananya Acharya, Virginie Ropars, Jean-Baptiste Charbonnier, Martin Jinek, Andrè Nussenzweig, Taekjip Ha, Petr Cejka HLTF disrupts Cas9-DNA postcleavage complexes to allow DNA break processing Nature Communications 2024-07-10 [PMID: 38987539]





Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112 USA Phone: 303.730.1950 Toll Free: 1.888.506.6887 Fax: 303.730.1966 nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave Toronto, ON M8Z 4E6 Canada Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402 canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB, United Kingdom Phone: (44) (0) 1235 529449 Free Phone: 0800 37 34 15 Fax: (44) (0) 1235 533420 info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com Technical Support: nb-technical@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

Products Related to NBP2-80679

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-52986	CRISPR-Cas9 Antibody Pack

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-80679

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications

www.novusbio.com

