

Product Datasheet

dsRNA Antibody (J2) - Azide and BSA Free NBP3-11395-200ug

Unit Size: 200 ug

Store lyophilized antibody at -20C prior to opening. Aliquot reconstituted liquid and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing.

www.novusbio.com



technical@novusbio.com

Publications: 1

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP3-11395

Updated 9/14/2025 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/NBP3-11395



NBP3-11395-200ug

dsRNA Antibody (J2) - Azide and BSA Free

Product Information	
Unit Size	200 ug
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at -20C prior to opening. Aliquot reconstituted liquid and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing.
Clonality	Monoclonal
Clone	J2
Preservative	No Preservative
Reconstitution Instructions	The lyophilised sample should be reconstituted with 200 ul (500 ul for 500 ug size) sterile distilled water. The mAb will then be in PBS without any stabilisers at a concentration of 1 mg/ml.
Isotype	IgG2a Kappa
Purity	Protein A purified
Buffer	Lyophilised from PBS

Product Description	
Description	Novus Biologicals Mouse dsRNA Antibody (J2) - Azide and BSA Free (NBP3-11395) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-dsRNA Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Species	Multi-Species
Specificity/Sensitivity	This antibody recognises double-stranded RNA (dsRNA) provided that the length of the helix is greater than or equal to 40 bp. dsRNA-recognition is independent of the sequence and nucleotide composition of the antigen. All naturally occurring dsRNAs investigated up to now (40-50 species) as well as poly(I).poly(C) and poly(A).poly(U) have been recognised by this antibody, although in some assays its affinity to poly(I).poly(C) is about 10 times lower than that to other dsRNA antigens.
Immunogen	Female DBA/2 mice were injected intraperitoneally with a mixture of 50 ug L-dsRNA and 75 ug methylated bovine serum albumin, emulsified in complete Freund's adjuvant. After several boosts spleen cells were fused with Sp2/0-Ag14 myeloma cells to generate the hybridoma clone.
Notes	After reconstitution antibodies should be aliquoted and stored at -20C or -70C. After adding 10 mM sodium azide undiluted antibody can also be stored at 4C for a short period of time. For long term storage the mAb should be kept frozen. Repeated freezing/thawing cycles should be avoided. When kept lyophilized the product will remain stable for at least 5 years at -20C or -70C. This ds-RNA antibody was manufactured by Scicon.

Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoaffinity Purification
Recommended Dilutions	Western Blot, Flow Cytometry, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Dot Blot, Immunoaffinity Purification



Application Notes

This antibody can be used for ELISA, dsRNA-immunoblotting, immunoaffinity chromatography and in certain systems also for immunohistochemistry. The optimum working dilution of the antibody for any specific application should be established by titration.

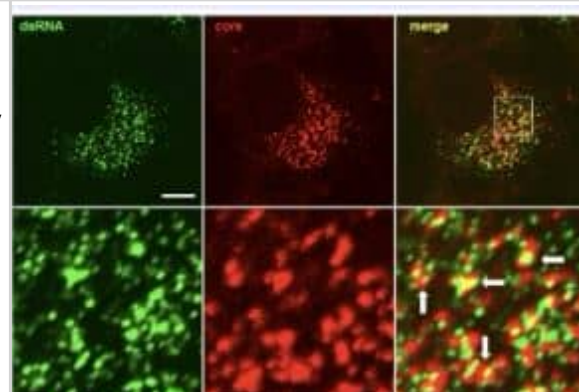
Please note that nucleic acid separation prior to dsRNA-immunoblotting must be carried out by polyacrylamide gel electrophoresis, because the sensitivity of detection is considerably lower after blotting from agarose gels.

Not for use for clinical purposes. For in vitro use only.

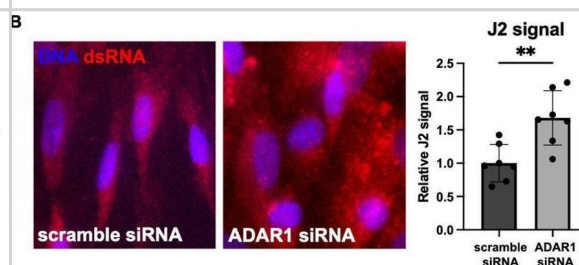
Immuno-affinity-chromatography.

Images

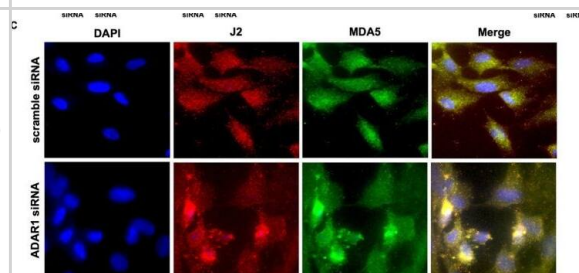
Immunohistochemistry-NBP3-11395-dsRNA Antibody (J2) - Azide and BSA Free-Antibody J2 (1:250 dilution, 4 microgram/ml) reveals the colocalisation of dsRNA (labelled in green) and Hepatitis C virus core protein (labelled in red), indicating the location of putative virus assembly sites (arrows).



ADAR1 knockdown results in dsRNA increases, type I interferon signaling and pro-inflammatory protein expression. (A) Immunoblots for MDA5 and RIG-I following ADAR1 knockdown. Unpaired t-test; n = 6/condition. (B) Representative images and relative J2 (dsRNA antibody) immunofluorescence signal showing dsRNA accumulation following ADAR1 knockdown. (C) Representative immunofluorescence images showing co-localization of dsRNA (J2) and MDA5 after transfection with ADAR1 siRNA. (D) Summary immunoblot data for ICAM-1, TNF- α , pIRF3, pNF- κ B, and (E) representative images following ADAR1 knockdown. (F) Concentrations of CXCL10 and IFN β following ADAR1 siRNA knockdown. **p \leq 0.01, ***p \leq 0.001, ****p \leq 0.0001 in unpaired t-test; n = 9/condition. Error bars represent SD. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38035265>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



ADAR1 knockdown results in dsRNA increases, type I interferon signaling and pro-inflammatory protein expression. (A) Immunoblots for MDA5 and RIG-I following ADAR1 knockdown. Unpaired t-test; n = 6/condition. (B) Representative images and relative J2 (dsRNA antibody) immunofluorescence signal showing dsRNA accumulation following ADAR1 knockdown. (C) Representative immunofluorescence images showing co-localization of dsRNA (J2) and MDA5 after transfection with ADAR1 siRNA. (D) Summary immunoblot data for ICAM-1, TNF- α , pIRF3, pNF- κ B, and (E) representative images following ADAR1 knockdown. (F) Concentrations of CXCL10 and IFN β following ADAR1 siRNA knockdown. **p \leq 0.01, ***p \leq 0.001, ****p \leq 0.0001 in unpaired t-test; n = 9/condition. Error bars represent SD. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38035265>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Cali M. McEntee, Alyssa N. Cavalier, Thomas J. LaRocca ADAR1 suppression causes interferon signaling and transposable element transcript accumulation in human astrocytes *Frontiers in Molecular Neuroscience* 2023-10-25 [PMID: 38035265]





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@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP3-11395-200ug

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)

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/NBP3-11395

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

