

Product Datasheet

ADAR Antibody (CL0176) - BSA Free NBP3-05500-100ul

Unit Size: 100 ul

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

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Updated 12/2/2025 v.20.1

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NBP3-05500-100ul

ADAR Antibody (CL0176) - BSA Free

Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CL0176
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH 7.2) and 40% Glycerol

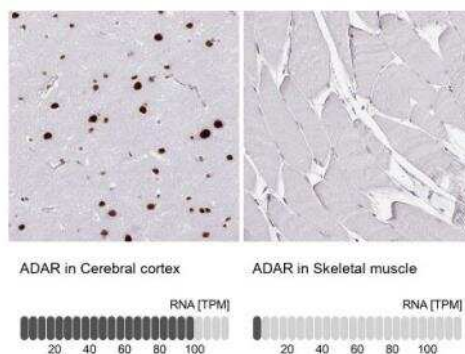
Product Description	
Description	Novus Biologicals Mouse ADAR Antibody (CL0176) - BSA Free (NBP3-05500) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-ADAR Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	103
Gene Symbol	ADAR
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (86%), Rat (85%)
Immunogen	This antibody was developed using a recombinant protein derived from P55265, with the exact immunogen sequence remaining proprietary.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 2-10 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. For ICC/IF fixation permeabilization use PFA/Triton X-100.

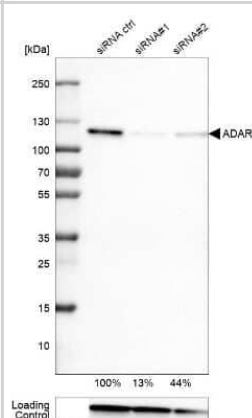


Images

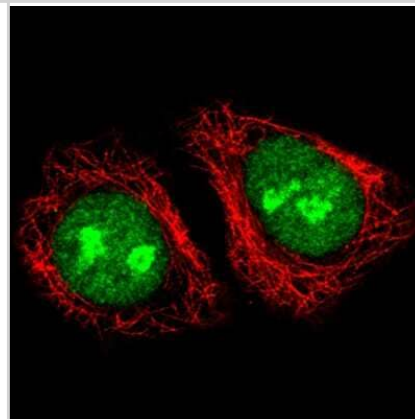
Immunohistochemistry-Paraffin: ADAR Antibody (CL0176) [NBP3-05500]
- Analysis in human cerebral cortex and skeletal muscle tissues using NBP3-05500 antibody. Corresponding ADAR RNA-seq data are presented for the same tissues.



Western Blot: ADAR Antibody (CL0176) [NBP3-05500] - Analysis in U-251MG cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-ADAR antibody. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



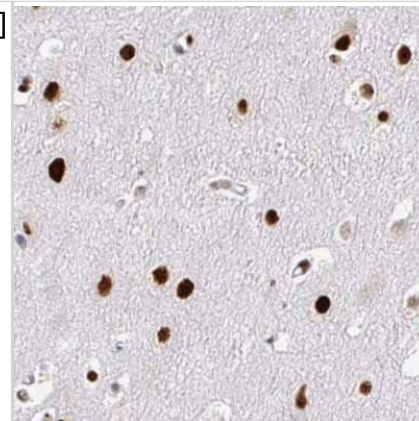
Immunocytochemistry/Immunofluorescence: ADAR Antibody (CL0176) [NBP3-05500] - Staining of A549 cells using the Anti-ADAR monoclonal antibody, showing specific staining in the nucleoplasm and nucleoli in green. Microtubule- and nuclear probes are visualized in red and blue, respectively (where available).



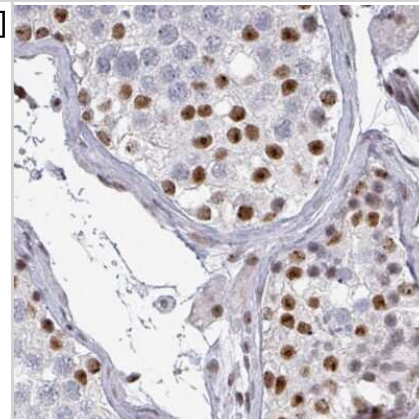
Immunohistochemistry-Paraffin: ADAR Antibody (CL0176) [NBP3-05500]
- Staining of human skeletal muscle shows no positivity in myocytes as expected.



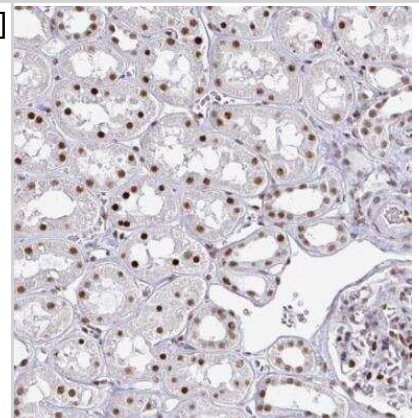
Immunohistochemistry-Paraffin: ADAR Antibody (CL0176) [NBP3-05500]
- Staining of human cerebral cortex shows nuclear positivity.



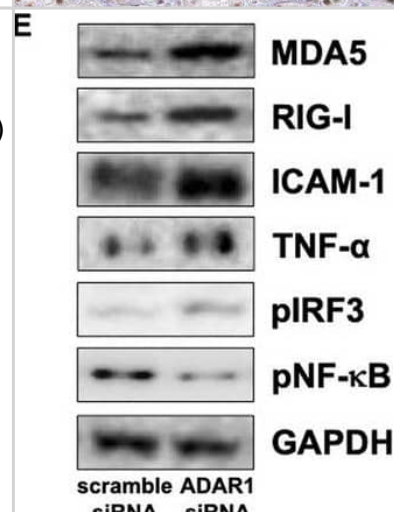
Immunohistochemistry-Paraffin: ADAR Antibody (CL0176) [NBP3-05500]
- Staining of human testis shows nuclear positivity.



Immunohistochemistry-Paraffin: ADAR Antibody (CL0176) [NBP3-05500]
- Staining of human kidney shows strong nuclear positivity in cells in tubules.



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]





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Products Related to NBP3-05500-100ul

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]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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.

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