

Product Datasheet

ADNP Antibody - BSA Free

NBP1-89236

Unit Size: 0.1 ml

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

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NBP1-89236

ADNP Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
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	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

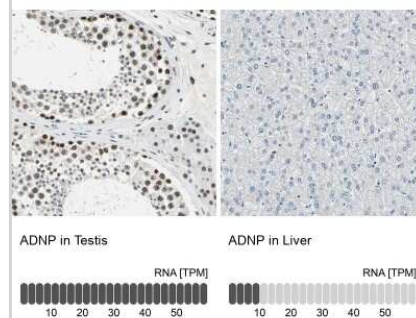
Product Description	
Host	Rabbit
Gene ID	23394
Gene Symbol	ADNP
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Use in Rabbit reported in scientific literature (PMID:35052632).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: SGSPFDPVFEVEPKISNDNPEEHVLKVIPEDASESEEEKLDQKEDGSKYETIHLTE EPTKLMHNASDSEVDQDDVVEWKDGASPSESGPGSQVSDFDNTCEMKPG TWSDESSQSEDARSSKPAAKKKATMQGDREQLKWKNSSYGKVEG

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunoprecipitation Image, protocol and testing courtesy of YCharOS Inc. (ycharos.com)., Immunohistochemistry-Paraffin 1:50 - 1:200, Knockdown Validated Image, protocol and testing courtesy of YCharOS Inc. (ycharos.com).
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

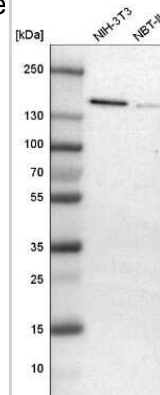


Images

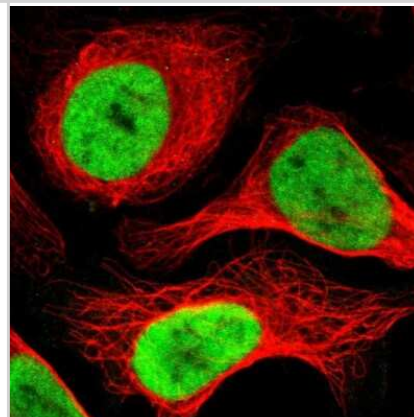
Immunohistochemistry-Paraffin: ADNP Antibody [NBP1-89236] - Analysis in human testis and liver tissues using NBP1-89236 antibody. Corresponding ADNP RNA-seq data are presented for the same tissues.



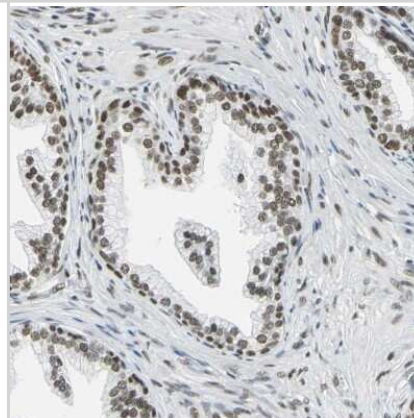
Western Blot: ADNP Antibody [NBP1-89236] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



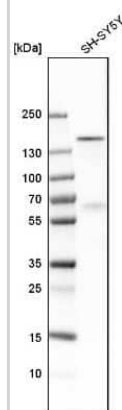
Immunocytochemistry/Immunofluorescence: ADNP Antibody [NBP1-89236] - Staining of human cell line U-2 OS shows localization to nucleoplasm. Antibody staining is shown in green.



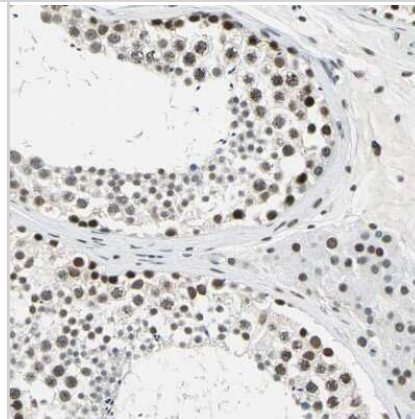
Immunohistochemistry-Paraffin: ADNP Antibody [NBP1-89236] - Staining of human prostate shows strong nuclear positivity in glandular cells.



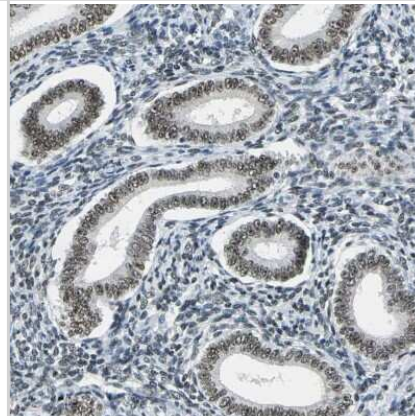
Western Blot: ADNP Antibody [NBP1-89236] - Analysis in human cell line SH-SY5Y.



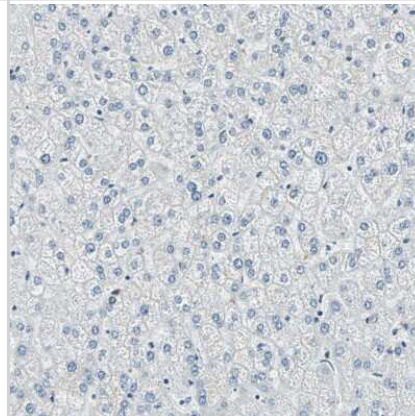
Immunohistochemistry-Paraffin: ADNP Antibody [NBP1-89236] - Staining of human testis shows moderate to strong nuclear positivity in cells in seminiferous ducts.



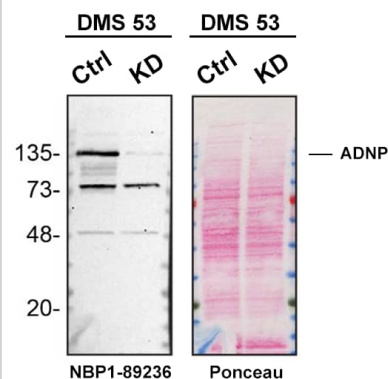
Immunohistochemistry-Paraffin: ADNP Antibody [NBP1-89236] - Staining of human endometrium shows moderate nuclear positivity in glandular cells.



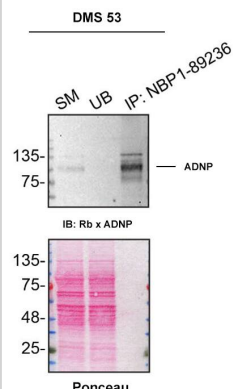
Immunohistochemistry-Paraffin: ADNP Antibody [NBP1-89236] - Staining of human liver shows no positivity in hepatocytes as expected.



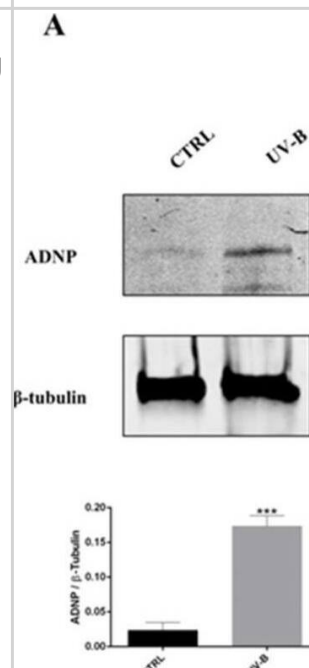
Western blot shows lysates of DMS 53 parental cell line and ADNP knockdown DMS 53 cell line (KD). Nitrocellulose membrane was probed with ADNP Antibody (Catalog # NBP1-89236) followed by HRP-conjugated secondary antibody. A specific band was detected for ADNP at approximately 135 kDa (as indicated) in the parental DMS 53 cell line, but is significantly reduced in knockdown DMS 53 cell line. Primary antibody concentration used: 0.4 $\mu\text{g}/\text{ml}$. The Ponceau stained transfer of the blot is shown. This experiment was conducted under reducing conditions. Image, protocol, and testing courtesy of YCharOS Inc. See ycharos.com for additional details.



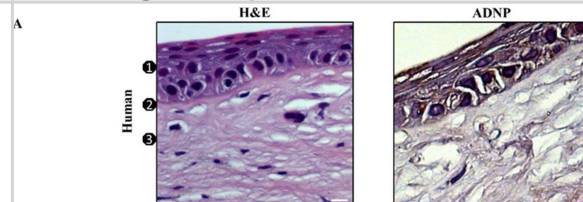
DMS 53 cell line lysates were prepared and immunoprecipitation was performed using 2.0 μg of ADNP Antibody (Catalog # NBP1-89236) pre-coupled to Dynabeads Protein A. Immunoprecipitated ADNP was detected in Western Blot with a Rabbit ADNP antibody used at 1/500. The Ponceau stained transfer of the blot is shown. SM=4% starting material; UB=4% unbound fraction; IP=immunoprecipitate; HC=antibody heavy chain. Image, protocol and testing courtesy of YCharOS Inc. (ycharos.com).



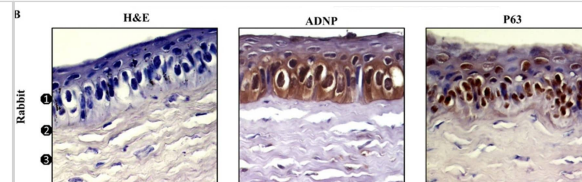
Expression of ADNP in SIRC cells exposed to UV-B radiations. (A) Representative immunoblots of ADNP expression in SIRC cells following exposure to UV-B insult. The bar graph shows quantitative analysis of signals obtained by immunoblots resulting from three independent experiments. Relative band densities were quantified using ImageJ software. Protein levels are expressed as arbitrary units obtained following normalization to β -tubulin, which was used as loading control. Data represent means \pm SEM. *** $p < 0.001$ vs. CTRL, as determined by unpaired two-tailed Student t-test. (B) Representative photomicrographs showing ADNP expression (green) in SIRC cells exposed to UV-B radiations. Nuclei were stained with DAPI. Photomicrographs are representative results of fields taken randomly from each slide and scanned by confocal laser scanning microscopy (CLSM; Zeiss LSM700). In the right column, a thin section (0.3 μm) with some SIRC cells showing ADNP in the euchromatic compartment of the nuclei is shown. Scale bar in the left and middle columns is 20 μm , and in the right column is 10 μm . Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35052632>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



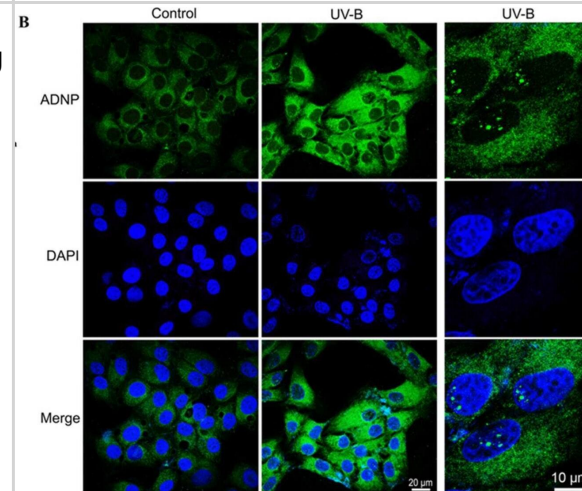
Expression of ADNP and p63 in corneal epithelium. H&E staining and immunodetection of ADNP and p63 in human (A) and rabbit (B) cornea: (1) Epithelium, (2) Bowman's membrane, (3) stroma. Original magnification $\times 200$. Digital micrographs are representative results of fields taken in randomly selected slides and obtained using the Zeiss Axioplan light microscope (Carl Zeiss) fitted with a digital camera (AxioCam MRC5; Carl Zeiss); scale bar: 20 μm . Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35052632>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Expression of ADNP and p63 in corneal epithelium. H&E staining and immunodetection of ADNP and p63 in human (A) and rabbit (B) cornea: (1) Epithelium, (2) Bowman's membrane, (3) stroma. Original magnification $\times 200$. Digital micrographs are representative results of fields taken in randomly selected slides and obtained using the Zeiss Axioplan light microscope (Carl Zeiss) fitted with a digital camera (AxioCam MRc5; Carl Zeiss); scale bar: 20 μm . Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35052632>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Expression of ADNP in SIRC cells exposed to UV-B radiations. (A) Representative immunoblots of ADNP expression in SIRC cells following exposure to UV-B insult. The bar graph shows quantitative analysis of signals obtained by immunoblots resulting from three independent experiments. Relative band densities were quantified using ImageJ software. Protein levels are expressed as arbitrary units obtained following normalization to b-tubulin, which was used as loading control. Data represent means \pm SEM. *** $p < 0.001$ vs. CTRL, as determined by unpaired two-tailed Student t-test. (B) Representative photomicrographs showing ADNP expression (green) in SIRC cells exposed to UV-B radiations. Nuclei were stained with DAPI. Photomicrographs are representative results of fields taken randomly from each slide and scanned by confocal laser scanning microscopy (CLSM; Zeiss LSM700). In the right column, a thin section (0.3 μm) with some SIRC cells showing ADNP in the euchromatic compartment of the nuclei is shown. Scale bar in the left and middle columns is 20 μm , and in the right column is 10 μm . Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35052632>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Teter O, McQuade A, Hagan V et al. CRISPRi-based screen of autism spectrum disorder risk genes in microglia uncovers roles of ADNP in microglia endocytosis and synaptic pruning *Molecular Psychiatry* 2025-04-06 [PMID: 40188316]

Gráinne M Donnelly, Isabel S Moore Sports Medicine and the Pelvic Floor. *Current sports medicine reports* 2023-03-06 [PMID: 36866951]

Magri B, D'Amico AG, Maugeri G et al. Neuroprotective effect of the PACAP-ADNP axis on SOD1G93A mutant motor neuron death induced by trophic factors deprivation *Neuropeptides* 2023-10-11 [PMID: 37856900] (Immunohistochemistry, Western Blot, Mouse)

D'Amico AG, Maugeri G, Magri B et al. PACAP-ADNP axis prevents outer retinal barrier breakdown and choroidal neovascularization by interfering with VEGF secreted from retinal pigmented epithelium cells *Peptides* 2023-07-24 [PMID: 37495040] (WB, ICC/IF, IHC-P, Rat, Human)

Ferreira ACF, Szeto ACH, Clark PA et al. Neuroprotective protein ADNP-dependent histone remodeling complex promotes T helper 2 immune cell differentiation *Immunity* 2023-05-26 [PMID: 37285842] (IP, Mouse)

Maugeri G, D'Amico AG, Giunta S et al. Activity-Dependent Neuroprotective Protein (ADNP)-Derived Peptide (NAP) Counteracts UV-B Radiation-Induced ROS Formation in Corneal Epithelium *Antioxidants (Basel, Switzerland)* 2022-01-07 [PMID: 35052632] (IF/IHC, WB, ICC/IF, Rabbit, Human)

Yang M, Chen Y, Tu S et al. Utilizing an Animal Model to Identify Brain Neurodegeneration-Related Biomarkers in Aging *International Journal of Molecular Sciences* 2021-03-23 [PMID: 33807010] (IF/IHC, Mouse)

Cesur G, Eren MK, Eren E et al. Effect of experimentally induced hypothyroidism during gestation period on activity dependent neurotrophic factor (ADNF) in newborn rat brain tissue. *Horm Mol Biol Clin Investig* 2018-09-26 [PMID: 30256757] (IF/IHC, Rat)





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

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NBP1-89236PEP	ADNP Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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