

Anti-ADNP Antibody [PSH07-36] - BSA and Azide free

HA751157



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IHC-Fr, IF-Cell, IF-Tissue, IP
Molecular Wt:	Predicted band size: 124 kDa
Clone number:	PSH07-36

Description: Activity-dependent neuroprotector homeobox is a protein that in humans is encoded by the ADNP gene. Vasoactive intestinal peptide is a neuroprotective factor that has a stimulatory effect on the growth of some tumor cells and an inhibitory effect on others. This gene encodes a protein that is upregulated by vasoactive intestinal peptide and may be involved in its stimulatory effect on certain tumor cells. The encoded protein contains one homeobox and nine zinc finger domains, suggesting that it functions as a transcription factor. This gene is also upregulated in normal proliferative tissues. Finally, the encoded protein may increase the viability of certain cell types through modulation of p53 activity. Alternatively spliced transcript variants encoding the same protein have been described.

Immunogen: Recombinant protein within human ADNP aa 803-1,102.

Positive control: HeLa cell lysate, 293T cell lysate, U-87 MG cell lysate, Neuro-2a cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate, human colon cancer tissue, mouse brain tissue, rat brain tissue, HeLa, NIH/3T3, C6.

Subcellular location: Nucleus, Chromosome.

Database links: SwissProt: Q9H2P0 Human | Q9Z103 Mouse | Q9JKL8 Rat

Recommended Dilutions:

WB	1:2,000
IHC-P	1:1,000
IHC-Fr	1:200-1:1,000
IF-Cell	1:100
IF-Tissue	1:200-1:1,000
IP	1:1,000

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

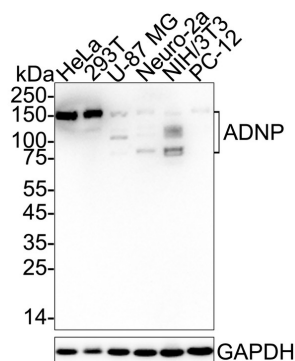


Fig1: Western blot analysis of ADNP on different lysates with Rabbit anti-ADNP antibody (HA751157) at 1/2,000 dilution.

Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: 293T cell lysate (20 µg/Lane)
 Lane 3: U-87 MG cell lysate (20 µg/Lane)
 Lane 4: Neuro-2a cell lysate (20 µg/Lane)
 Lane 5: NIH/3T3 cell lysate (20 µg/Lane)
 Lane 6: PC-12 cell lysate (20 µg/Lane)

Predicted band size: 124 kDa
 Observed band size: 150/100/75 kDa

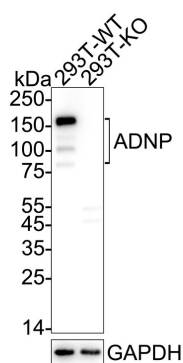
Exposure time: 3 minutes; ECL: K1801;
 4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751157) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of ADNP on different lysates with Rabbit anti-ADNP antibody (HA751157) at 1/2,000 dilution.

Lane 1: 293T WT cell lysate
 Lane 2: 293T knockout ADNP cell lysate

Lysates/proteins at 20 µg/Lane.



Predicted band size: 124 kDa
 Observed band size: 150/100/75 kDa

Exposure time: 59 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751157) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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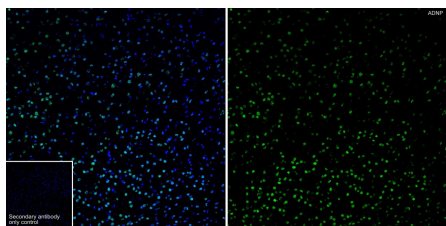
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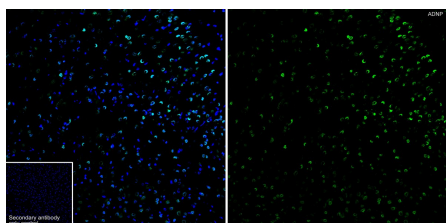
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Fig3: Immunofluorescence analysis of frozen mouse brain tissue with Rabbit anti-ADNP antibody (HA751157) at 1/1,000 dilution.



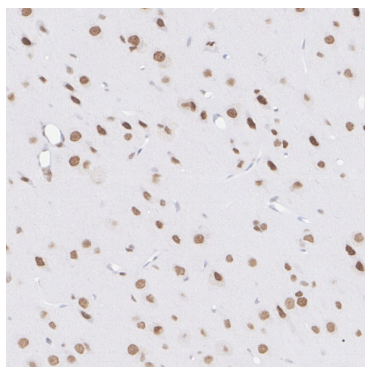
The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for about 2 minutes in microwave oven. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (HA751157, green) at 1/1,000 dilution overnight at 4 °C, washed with PBS. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).

Fig4: Immunofluorescence analysis of frozen rat brain tissue with Rabbit anti-ADNP antibody (HA751157) at 1/200 dilution.



The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for about 2 minutes in microwave oven. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (HA751157, green) at 1/200 dilution overnight at 4 °C, washed with PBS. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).

Fig5: Immunohistochemical analysis of paraffin-embedded rat brain tissue with Rabbit anti-ADNP antibody (HA751157) at 1/1,000 dilution.



The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA751157) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

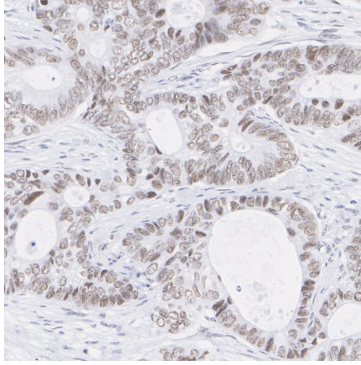


Fig6: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue with Rabbit anti-ADNP antibody (HA751157) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA751157) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

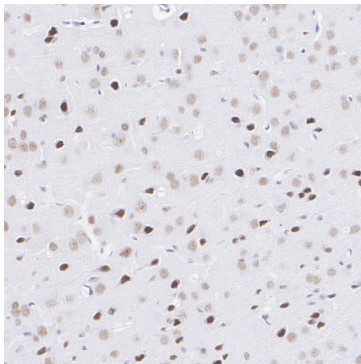
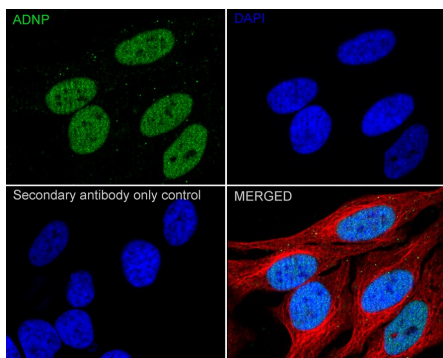


Fig7: Immunohistochemical analysis of paraffin-embedded mouse brain tissue with Rabbit anti-ADNP antibody (HA751157) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA751157) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

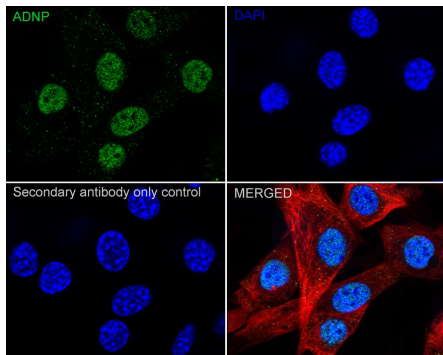
Fig8: Immunocytochemistry analysis of HeLa cells labeling ADNP with Rabbit anti-ADNP antibody (HA751157) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-ADNP antibody (HA751157) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

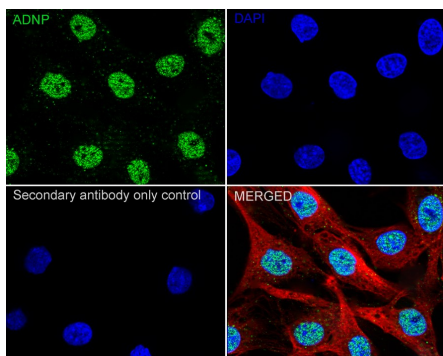
Fig9: Immunocytochemistry analysis of NIH/3T3 cells labeling ADNP with Rabbit anti-ADNP antibody (HA751157) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-ADNP antibody (HA751157) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

Fig10: Immunocytochemistry analysis of C6 cells labeling ADNP with Rabbit anti-ADNP antibody (HA751157) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-ADNP antibody (HA751157) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

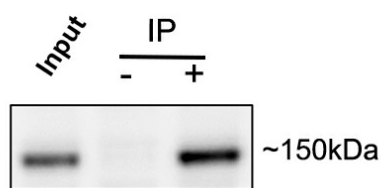


Fig11: ADNP was immunoprecipitated in 0.2mg 293T cell lysate with (HA751157) at 2 μ g/10 μ l beads. Western blot was performed from the immunoprecipitate using (HA751157) at 1/1,000 dilution. Anti-Rabbit IgG for IP Nano-secondary antibody (NBI01H) at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: 293T cell lysate (input)

Lane 2: Rabbit IgG instead of (HA751157) in 293T cell lysate

Lane 3: (HA751157) IP in 293T cell lysate

Blocking/Dilution buffer: 5% NFDM/TBST

We thank Dr. Aodi Ma, Beijing Institute of Life Sciences, for providing data.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. D'Incal CP et al. Chromatin remodeler Activity-Dependent Neuroprotective Protein (ADNP) contributes to syndromic autism. *Clin Epigenetics*. 2023 Mar
2. Maugeri G et al. Activity-Dependent Neuroprotective Protein (ADNP): An Overview of Its Role in the Eye. *Int J Mol Sci*. 2022 Nov

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