

Anti-ADNP Antibody [PSH24-23]

HA724430



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-Fr, IHC-P, IF-Cell, IP, ChIP
Molecular Wt:	Predicted band size: 124 kDa
Clone number:	PSH24-23

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 (Human cervical adenocarcinoma cell) cell lysate, NIH/3T3 (Mouse fibroblast) cell lysate, C2C12 (Mouse myoblast) cell lysate, PC-12 (Rat pheochromocytoma cell (undifferentiated)) cell lysate, C6 (Rat glioma cell) cell lysate.

Subcellular location: Nucleus, Chromosome.

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

Recommended Dilutions:

WB	1:2,000
IHC-Fr	1:500
IHC-P	1:2,000
IF-Cell	1:100-1:500
IP	1-2µg/sample
ChIP	Use 0.5~2 µg for 25 µg of chromatin.

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

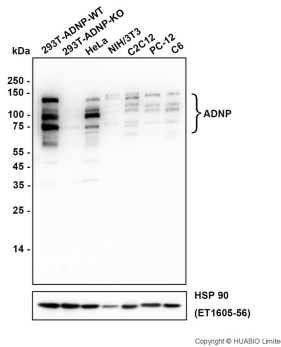
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of ADNP on different lysates with Rabbit anti-ADNP antibody (HA724430) at 1/5,000 dilution.



Lane 1: 293T-ADNP-WT cell lysate
 Lane 2: 293T-ADNP-KO cell lysate
 Lane 3: HeLa (Human cervical adenocarcinoma cell) cell lysate
 Lane 4: NIH/3T3 (Mouse fibroblast) cell lysate
 Lane 5: C2C12 (Mouse myoblast) cell lysate
 Lane 6: PC-12 (Rat pheochromocytoma cell (undifferentiated)) cell lysate
 Lane 7: C6 (Rat glioma cell) cell lysate

Lysates/proteins at 20 µg/Lane.

Exposure time: 1 minute; ECL: K1801

Blocking: 5% NFDN/TBST, 1 hour at room temperature

Primary antibody: HA724430, 1/2,000 in 5% NFDN/TBST, overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDN/TBST, 1 hour at room temperature

Predicted band size: 124 kDa

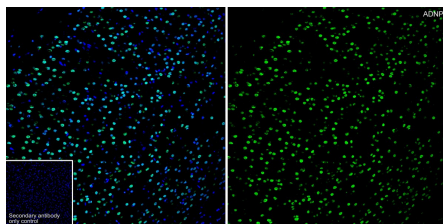
Observed band size: 140 kDa

Fig2: Application: Immunofluorescence (IHC-Fr)

Species: Mouse

Tissue: Brain

Sample: Frozen section



Antigen retrieval: Not required

Wash buffer: 1× TBST

Blocking: 10% normal goat serum + 1% Triton X-100 + 0.3 M Glycine in TBST, 30 minutes at room temperature.

Primary antibody: HA724430, 1/500, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 1.5 hours at room temperature.

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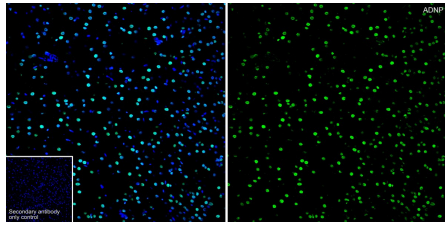


Fig3: Application: Immunofluorescence (IHC-Fr)

Species: Rat
Tissue: Brain
Sample: Frozen section

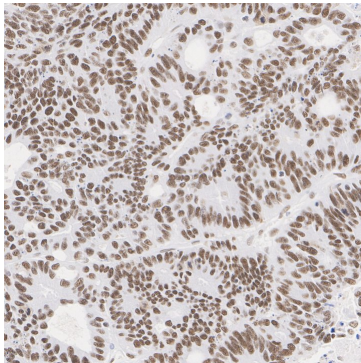
Antigen retrieval: Not required

Wash buffer: 1× TBST
Blocking: 10% normal goat serum + 1% Triton X-100 + 0.3 M Glycine in TBST, 30 minutes at room temperature.

Primary antibody: HA724430, 1/500, overnight at 4°C.
Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 1.5 hours at room temperature.

Fig4: Application: Immunohistochemistry (IHC-P)

Species: Human
Tissue: Colon cancer
Sample: Paraffin-embedded section



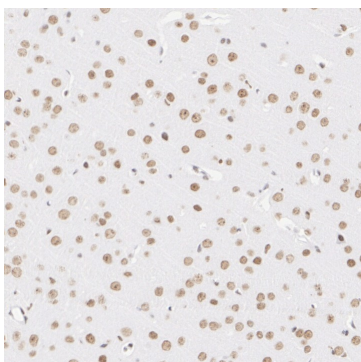
Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST
Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.
Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724430, 1/2,000, 1 hour at room temperature.
Secondary antibody: HA1119, 20 minutes at room temperature.

Fig5: Application: Immunohistochemistry (IHC-P)

Species: Mouse
Tissue: Brain
Sample: Paraffin-embedded section



Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST
Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.
Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724430, 1/2,000, 1 hour at room temperature.
Secondary antibody: HA1119, 20 minutes at room temperature.

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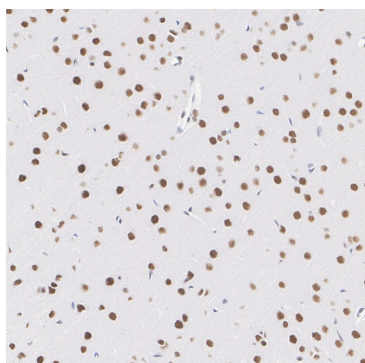


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Fig6: Application: Immunohistochemistry (IHC-P)

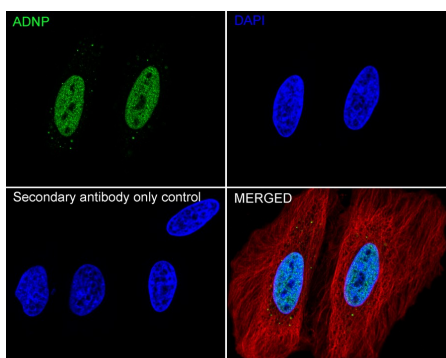


Species: Rat
Tissue: Brain
Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST
Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.
Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.
Primary antibody: HA724430, 1/2,000, 1 hour at room temperature.
Secondary antibody: HA1119, 20 minutes at room temperature.

Fig7: Application: Immunocytochemistry (IF-cell)



Species: Human
Sample: HeLa (Human cervix adenocarcinoma epithelial cell)

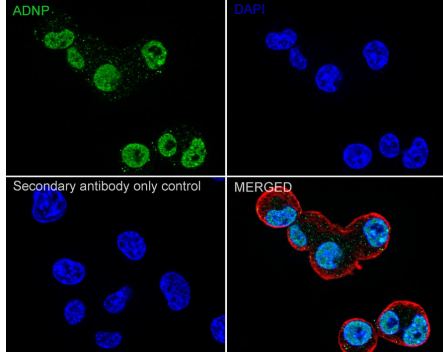
Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.
Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.
Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.
Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724430, 1/500, overnight at 4°C.
Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.
Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

Fig8: Application: Immunocytochemistry (IF-cell)

Species: Mouse

Sample: Neuro-2a (Mouse brain neuroblastoma cell)



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.
 Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724430, 1/100, overnight at 4°C.

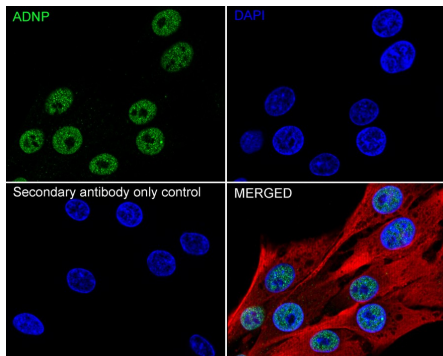
Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

Fig9: Application: Immunocytochemistry (IF-cell)

Species: Rat

Sample: C6 (Rat glioma cell)



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.
 Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

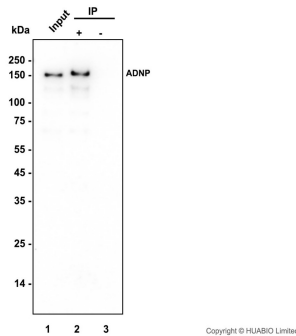
Primary antibody: HA724430, 1/500, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

Fig10: Immunoprecipitation (IP)

ADNP was immunoprecipitated in 0.2 mg Neuro-2a (Mouse brain neuroblastoma cell) cell lysate with HA724430 at 2 μ g/10 μ l beads. Western blot was performed from the immunoprecipitate using HA724430 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: Neuro-2a cell lysate (input)

Lane 2: HA724430 IP in Neuro-2a cell lysate

Lane 3: Rabbit IgG instead of HA724430 in Neuro-2a cell lysate

Exposure time: 59 seconds

Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary dilution: HA724430, 1/1,000 in primary antibody dilution buffer (K1803), 2 hours at room temperature

Predicted band size: 124 kDa

Observed band size: 140 kDa

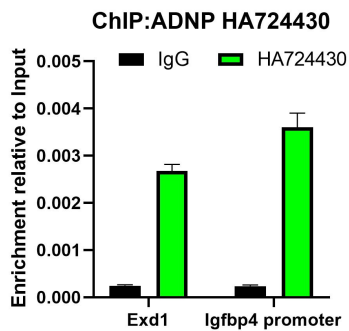


Fig11: Chromatin immunoprecipitations were performed with cross-linked chromatin from Neuro-2a cells with ADNP (HA724430) / Competitor's antibody / Normal Rabbit IgG according to the ChIP protocol. The enriched DNA was quantified by real-time PCR using indicated primers. The amount of immunoprecipitated DNA in each sample is represented as signal relative to the total amount of input chromatin, which is equivalent to one.

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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