

ADNP (E-20): sc-49344

BACKGROUND

Activity-dependent neuroprotector (ADNP), also designated activity-dependent neuroprotective protein, is a nuclear protein that functions as a putative transcription factor and may participate in normal growth and cancer proliferation. ADNP is a highly conserved vasoactive intestinal peptide (VIP) responsive gene that is expressed profusely in the brain (primarily cerebellum and cortex regions) and is crucial for brain formation and embryonic development. ADNP is also highly expressed in kidney, placenta, heart, skeletal muscle, breast and colon cancer tissues. Studies indicate that neuroprotection by subpicomolar PACAP38 might be mediated partially by expression of ADNP. A correlation between brain injuries and elevated ADNP levels indicates a potential involvement of ADNP in an endogenous compensatory mechanism.

CHROMOSOMAL LOCATION

Genetic locus: ADNP (human) mapping to 20q13.13; Adnp (mouse) mapping to 2 H3.

SOURCE

ADNP (E-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ADNP of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-49344 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-49344 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

ADNP (E-20) is recommended for detection of ADNP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ADNP (E-20) is also recommended for detection of ADNP in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ADNP siRNA (h): sc-60127, ADNP siRNA (m): sc-60128, ADNP shRNA Plasmid (h): sc-60127-SH, ADNP shRNA Plasmid (m): sc-60128-SH, ADNP shRNA (h) Lentiviral Particles: sc-60127-V and ADNP shRNA (m) Lentiviral Particles: sc-60128-V.

ADNP (E-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

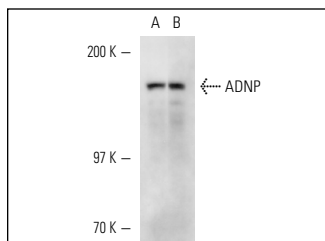
Molecular Weight of ADNP: 150 kDa.

Positive Controls: HeLa nuclear extract: sc-2120 or SK-N-MC nuclear extract: sc-2154.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ADNP (E-20): sc-49344. Western blot analysis of ADNP expression in HeLa (A) and SK-N-MC (B) nuclear extracts.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **ADNP (F-5): sc-393377** or **ADNP (F-9): sc-376674**, our highly recommended monoclonal alternatives to ADNP (E-20).