

# NF-1A (K-21): sc-133816

## BACKGROUND

The NF-1 family of CCAAT box binding proteins function to stimulate DNA replication and activate transcription. NF-1A (nuclear factor I/A), a member of the NF-1 family, is a 509 amino acid protein that localizes to the nucleus and contains one CTF/NF-I DNA-binding domain. Existing as a homodimer that is able to bind DNA, NF-1A recognizes and binds to the palindromic sequence 5'-TTGGCNNNNNGCCAA-3' (a sequence that is common in both cellular and viral promoters) and, via this binding, plays a role in transcription and replication. NF-1A is subject to DNA damage-dependent phosphorylation, probably by ATM or ATR. Multiple isoforms of NF-1A exist due to alternative splicing events.

## REFERENCES

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## STORAGE

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

## CHROMOSOMAL LOCATION

Genetic locus: NFIA (human) mapping to 1p31.3; Nfia (mouse) mapping to 4 C6.

## SOURCE

NF-1A (K-21) is an affinity purified rabbit polyclonal antibody raised against synthetic NF-1A peptide of human origin.

## PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

NF-1A (K-21) is recommended for detection of NF-1A 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NF-1A siRNA (h): sc-43563, NF-1A siRNA (m): sc-36045, NF-1A shRNA Plasmid (h): sc-43563-SH, NF-1A shRNA Plasmid (m): sc-36045-SH, NF-1A shRNA (h) Lentiviral Particles: sc-43563-V and NF-1A shRNA (m) Lentiviral Particles: sc-36045-V.

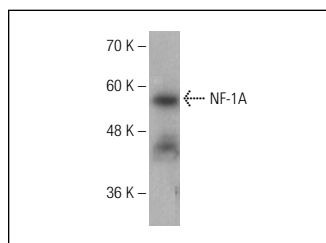
Molecular Weight of NF-1A: 55 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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).

## DATA



NF-1A (K-21): sc-133816. Western blot analysis of NF-1A expression in Jurkat whole cell lysate.

## RESEARCH USE

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