

# NAB1 (H-106): sc-22813

## BACKGROUND

Transcriptional control is in part regulated by interactions between DNA-bound transcription factors, such as Egr1/NGFI-A, and coregulatory proteins, such as NAB (for NGFI-A-binding proteins). The evolutionarily conserved NAB proteins, NAB1 and NAB2, are corepressors of Egr1/NGFI-A. Both NAB1 and NAB2 contain an amino-terminal NAB-conserved domain 1 (NCB1), which is required for binding NGFI-A, and a carboxy-terminal NCD2, which is responsible for the repressor function of NAB proteins. NAB1 requires NGFI-A to gain access to DNA, indicating that NAB1 is an active repressor that works by a direct mechanism. NAB1, which is constitutively expressed, is localized exclusively in the nucleus and may play a role in controlling processes such as cell division, differentiation and apoptosis.

## REFERENCES

1. Russo, M.W., Matheny, C. and Milbrandt, J. 1993. Transcriptional activity of the zinc finger protein NGFI-A is influenced by its interaction with a cellular factor. *Mol. Cell. Biol.* 13: 6858-6865.
2. Russo, M.W., Severson, B.R. and Milbrandt, J. 1995. Identification of NAB1, a repressor of NGFI-A- and Krox20-mediated transcription. *Proc. Natl. Acad. Sci. USA* 92: 6873-6877.

## CHROMOSOMAL LOCATION

Genetic locus: NAB1 (human) mapping to 2q32.2; Nab1 (mouse) mapping to 1 C1.1.

## SOURCE

NAB1 (H-106) is a rabbit polyclonal antibody raised against amino acids 281-486 mapping at the C-terminus of NAB1 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.

## APPLICATIONS

NAB1 (H-106) is recommended for detection of NAB1 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).

NAB1 (H-106) is also recommended for detection of NAB1 in additional species, including canine and bovine.

Suitable for use as control antibody for NAB1 siRNA (h): sc-38089, NAB1 siRNA (m): sc-38090, NAB1 shRNA Plasmid (h): sc-38089-SH, NAB1 shRNA Plasmid (m): sc-38090-SH, NAB1 shRNA (h) Lentiviral Particles: sc-38089-V and NAB1 shRNA (m) Lentiviral Particles: sc-38090-V.

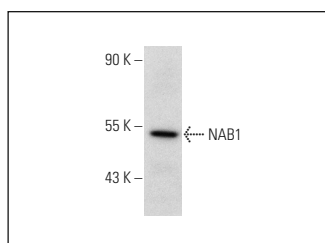
Molecular Weight of NAB1: 54 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or SK-N-MC cell lysate: sc-2237.

## 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™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



NAB1 (H-106): sc-22813. Western blot analysis of NAB1 expression in SK-N-MC whole cell lysate.

## SELECT PRODUCT CITATIONS

1. Tur, G., Georgieva, E.I., Gagete, A., López-Rodas, G., Rodríguez, J.L. and Franco, L. 2010. Factor binding and chromatin modification in the promoter of murine Egr1 gene upon induction. *Cell. Mol. Life Sci.* 67: 4065-4077.

## STORAGE

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

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **NAB1 (A-8): sc-137084** or **NAB1 (B-5): sc-137116**, our highly recommended monoclonal alternatives to NAB1 (H-106).