

NAB1 (m): 293T Lysate: sc-121928

BACKGROUND

Transcriptional control is in part regulated by interactions between DNA-bound transcription factors, such as Egr-1/NGFI-A, and coregulatory proteins such as NAB (for NGFI-A-binding proteins). The evolutionarily conserved NAB proteins, NAB1 and NAB2, are corepressors of Egr-1/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

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3. Svaren, J., et al. 1996. NAB2, a corepressor of NGFI-A (Egr-1) and Krox-20, is induced by proliferative and differentiative stimuli. *Mol. Cell. Biol.* 16: 3545-3553.
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5. Severson, B.R., et al. 2000. A novel activation function for NAB proteins in EGR-dependent transcription of the luteinizing hormone β gene. *J. Biol. Chem.* 275: 9749-9757.
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7. Mussnug, J.H., et al. 2005. NAB1 is an RNA binding protein involved in the light-regulated differential expression of the light-harvesting antenna of *Chlamydomonas reinhardtii*. *Plant Cell* 17: 3409-3421.
8. Buitrago, M., et al. 2005. The transcriptional repressor NAB1 is a specific regulator of pathological cardiac hypertrophy. *Nat. Med.* 11: 837-844.
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CHROMOSOMAL LOCATION

Genetic locus: Nab1 (mouse) mapping to 1 C1.1.

PRODUCT

NAB1 (m): 293T Lysate represents a lysate of mouse NAB1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

NAB1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive NAB1 antibodies. Recommended use: 10-20 μ l per lane.

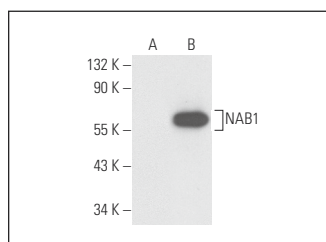
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

NAB1 (B-5): sc-137116 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse NAB1 expression in NAB1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

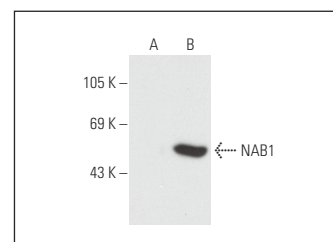
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



NAB1 (B-5): sc-137116. Western blot analysis of NAB1 expression in non-transfected: sc-117752 (A) and human NAB1 transfected: sc-121928 (B) 293T whole cell lysates.



NAB1 (A-8): sc-137084. Western blot analysis of NAB1 expression in non-transfected: sc-117752 (A) and mouse NAB1 transfected: sc-121928 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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