

NAB2 (A-5): sc-398123

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 EGF-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 domain, which is responsible for the repressor function of NAB proteins. NAB2 is principally localized in the nucleus and may play a role in the downregulation of NGFI-A activity as well as in controlling fundamental processes such as cell division, differentiation and apoptosis. NAB2 localizes to chromosome 12q13.3-14.1, a region that is rearranged in several solid tumors, lipomas, and liposarcomas.

CHROMOSOMAL LOCATION

Genetic locus: NAB2 (human) mapping to 12q13.3; Nab2 (mouse) mapping to 10 D3.

SOURCE

NAB2 (A-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 489-516 at the C-terminus of NAB2 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-398123 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

RESEARCH USE

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

APPLICATIONS

NAB2 (A-5) is recommended for detection of NAB2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

NAB2 (A-5) is also recommended for detection of NAB2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for NAB2 siRNA (h): sc-36014, NAB2 siRNA (m): sc-36015, NAB2 shRNA Plasmid (h): sc-36014-SH, NAB2 shRNA Plasmid (m): sc-36015-SH, NAB2 shRNA (h) Lentiviral Particles: sc-36014-V and NAB2 shRNA (m) Lentiviral Particles: sc-36015-V.

Molecular Weight (predicted) of NAB2: 57 kDa.

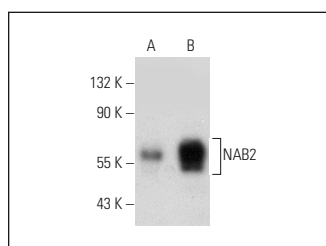
Molecular Weight (observed) of NAB2: 64 kDa.

Positive Controls: NAB2 (h): 293T Lysate: sc-117107, A-375 cell lysate: sc-3811 or RAT2 whole cell lysate: sc-364198.

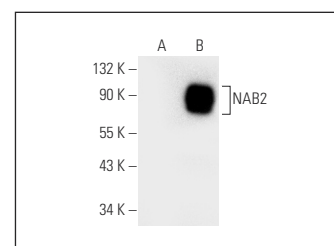
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



NAB2 (A-5): sc-398123. Western blot analysis of NAB2 expression in A-375 (A) and RAT2 (B) whole cell lysates.




NAB2 (A-5): sc-398123. Western blot analysis of expression in non-transfected: sc-117752 (A) and human NAB2 transfected: sc-117107 (B) 293T whole cell lysates.

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 for detailed protocols and support products.



CONJUGATES

See **NAB2 (1C4): sc-23867** for NAB2 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.