BACKGROUND

Transcriptional control is in part regulated by interactions between DNA-bound transcription factors, such as Egr-1/NGFI-A, and co-regulatory proteins, such as NAB (for NGFI-A-binding proteins). The evolutionarily conserved NAB proteins, NAB1 and NAB2 are co-repressors 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, 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 (1C4) is a mouse monoclonal antibody raised against recombinant human NAB2 protein.

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.

NAB2 (1C4) is available conjugated to agarose (sc-23867 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-23867 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-23867 PE), fluorescein (sc-23867 FITC), Alexa Fluor® 488 (sc-23867 AF488), Alexa Fluor® 546 (sc-23867 AF546), Alexa Fluor® 594 (sc-23867 AF594) or Alexa Fluor® 647 (sc-23867 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-23867 AF680) or Alexa Fluor® 790 (sc-23867 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

NAB2 (1C4) is recommended for detection of NAB2 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 immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

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: MCF7 whole cell lysate: sc-2206, SK-BR-3 cell lysate: sc-2218 or MDA-MB-231 cell lysate: sc-2232.

STORAGE

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

DATA

SELECT PRODUCT CITATIONS


RESEARCH USE

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

PROTOCOLS

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