NUB1 (F-10): sc-377003

**BACKGROUND**

NUB1 is a ubiquitin-like protein that controls vital biological events through its conjugation to cullin proteins. NEDD8 ultimate buster-1 (NUB1), is a negative regulator of the NEDD8 system that recruits NEDD8 and its conjugates to the proteasome for degradation. It is, therefore, a cell growth regulator. The UBA domain of NUB1 is the specific acceptor for the linear ubiquitin precursor. NUB1 is composed of 601 amino acids. It is an interferon-inducible protein and predominantly localizes in the nucleus. NUB1 is specifically expressed in adult human testis, ovary, heart, and skeletal muscle tissues.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: NUB1 (human) mapping to 7q36.1; Nub1 (mouse) mapping to 5 A3.

**SOURCE**

NUB1 (F-10) is a mouse monoclonal antibody raised against amino acids 272-342 mapping within an internal region of NUB1 of human origin.

**PRODUCT**

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

NUB1 (F-10) is available conjugated to agarose (sc-377003 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377003 HRP), 200 µg/ml, for WB, (HCl), and ELISA; to either phycocerythrin (sc-377003 PE), fluorescein (sc-377003 FITC), Alexa Fluor® 488 (sc-377003 AF488), Alexa Fluor® 546 (sc-377003 AF546), Alexa Fluor® 594 (sc-377003 AF594) or Alexa Fluor® 647 (sc-377003 AF647), 200 µg/ml, for WB (RGB), IF, (HCl) and FCM; and to either Alexa Fluor® 680 (sc-377003 AF680) or Alexa Fluor® 790 (sc-377003 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

NUB1 (F-10) is recommended for detection of NUB1 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).

Suitable for use as control antibody for NUB1 siRNA (h): sc-61237, NUB1 siRNA (m): sc-61238, NUB1 shRNA Plasmid (h): sc-61237-SH, NUB1 shRNA Plasmid (m): sc-61238-SH, NUB1 shRNA (h) Lentiviral Particles: sc-61237-V and NUB1 shRNA (m) Lentiviral Particles: sc-61238-V.

Molecular Weight of NUB1: 69 kDa.

Positive Controls: Ramos cell lysate: sc-2216, BYDP whole cell lysate: sc-36436B or HEK293 whole cell lysate: sc-45136.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG HRP: sc-516141 (dilution range: 1:50-1:200) with UltraCruz

Molecular Weight Standards: sc-2035, UltraCruz

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-IgG HRP: 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).

**DATA**

**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 for detailed protocols and support products.