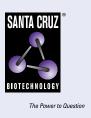
SANTA CRUZ BIOTECHNOLOGY, INC.

NUBP2 (C-12): sc-376784



BACKGROUND

NUBP2 (nucleotide binding protein 2), also known as cytosolic Fe/S cluster assembly factor NUBP2, is a 271 amino acid protein and component of cytosolic iron-sulfur (Fe/S) protein assembly machinery. Localizing to both nucleus and cytoplasm, NUBP2 is found at centrosomes during mitosis and is widely expressed, with highest levels of expression in skeletal muscle and fetal liver, lung, brain and kidney. NUBP2 is essential for extramitochondrial Fe/S protein maturation and is thought to transfer a labile 4Fe-4S cluster to various apoproteins. NUBP2 is a member of the NUBP/MRP gene subfamily of ATP-binding proteins and is encoded by a gene that maps to human chromosome 16p13.3 and mouse chromosome 17 A3.3.

CHROMOSOMAL LOCATION

Genetic locus: NUBP2 (human) mapping to 16p13.3; Nubp2 (mouse) mapping to 17 A3.3.

SOURCE

NUBP2 (C-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 131-165 within an internal region of NUBP2 of human origin.

PRODUCT

Each vial contains 200 $\mu g~lgG_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

NUBP2 (C-12) is available conjugated to agarose (sc-376784 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-376784 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376784 PE), fluorescein (sc-376784 FITC), Alexa Fluor[®] 488 (sc-376784 AF488), Alexa Fluor[®] 546 (sc-376784 AF546), Alexa Fluor[®] 594 (sc-376784 AF594) or Alexa Fluor[®] 647 (sc-376784 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-376784 AF680) or Alexa Fluor[®] 790 (sc-376784 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-376784 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

NUBP2 (C-12) is recommended for detection of NUBP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

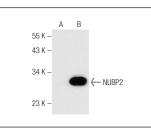
Suitable for use as control antibody for NUBP2 siRNA (h): sc-93406, NUBP2 siRNA (m): sc-150091, NUBP2 shRNA Plasmid (h): sc-93406-SH, NUBP2 shRNA Plasmid (m): sc-150091-SH, NUBP2 shRNA (h) Lentiviral Particles: sc-93406-V and NUBP2 shRNA (m) Lentiviral Particles: sc-150091-V.

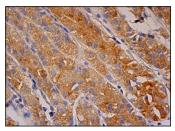
Molecular Weight of NUBP2: 30 kDa.

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. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA





NUBP2 (C-12): sc-376784. Western blot analysis of NUBP2 expression in non-transfected: sc-117752 (**A**) and mouse NUBP2 transfected: sc-122148 (**B**) 293T whole cell lysates.

NUBP2 (C-12): sc-376784. Immunoperoxidase staining of formalin fixed, paraffin-embedded human upper stomach tissue showing cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

- Perez, M., et al. 2022. Conditional covalent lethality driven by oncometabolite accumulation. ACS Chem. Biol. 17: 2789-2800.
- Abdulla, R., et al. 2023. Serum autoantibody profiling of oral squamous cell carcinoma patients reveals NUBP2 as a potential diagnostic marker. Front. Oncol. 13: 1167691.

STORAGE

Store at 4° C, **D0 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.