NBR1 (4BR): sc-130380



BACKGROUND

NBR1 (neighbor of BRCA1 gene 1), also known as M17S2, MIG19 or 1A13B, is a 966 amino acid protein that is encoded by a gene neighboring the well-characterized tumor suppressor BRCA1. Originally thought to be the ovarian cancer antigen CA125, NBR1 contains structural motifs, including a B-box/coiled-coil domain, an OPR domain and a ZZ-type zinc finger, that are characteristic of several proteins involved in cell transformation. NBR1 interacts with SQSTM1 (sequestosome 1 protein), Titin and MuRF2 (muscle-specific RING finger protein 2), suggesting a possible role in developmental pathways. Two isoforms, designated NBR1A and NBR1B, are expressed due to alternative splicing events. Expression of both isoforms is downregulated in malignant mammary tissues, indicating that NBR1 may be involved in tumor suppression.

CHROMOSOMAL LOCATION

Genetic locus: NBR1 (human) mapping to 17q21.31; Nbr1 (mouse) mapping to 11 D.

SOURCE

NBR1 (4BR) is a mouse monoclonal antibody raised against recombinant NBR1 of human origin.

PRODUCT

Each vial contains 100 $\mu g \; lgG_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

NBR1 (4BR) is recommended for detection of NBR1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for NBR1 siRNA (h): sc-94187, NBR1 siRNA (m): sc-149849, NBR1 shRNA Plasmid (h): sc-94187-SH, NBR1 shRNA Plasmid (m): sc-149849-SH, NBR1 shRNA (h) Lentiviral Particles: sc-94187-V and NBR1 shRNA (m) Lentiviral Particles: sc-149849-V.

Molecular Weight of NBR1: 107 kDa.

Positive Controls: PC-12 cell lysate: sc-2250 or F9 cell lysate: sc-2245.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM 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).

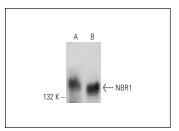
STORAGE

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.

DATA



NBR1 (4BR): sc-130380. Western blot analysis of NBR1 expression in PC-12 (**A**) and F9 (**B**) whole cell legates

SELECT PRODUCT CITATIONS

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- Shi, J., et al. 2015. NBR1 is dispensable for PARK2-mediated mitophagy regardless of the presence or absence of SQSTM1. Cell Death Dis. 6: e1943.
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- Choi, W.H., et al. 2016. Open-gate mutants of the mammalian proteasome show enhanced ubiquitin-conjugate degradation. Nat. Commun. 7: 10963.
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- Yan, Z., et al. 2017. Exercise leads to unfavourable cardiac remodelling and enhanced metabolic homeostasis in obese mice with cardiac and skeletal muscle autophagy deficiency. Sci. Rep. 7: 7894.

PROTOCOLS

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