**BACKGROUND**

Neurofibromatosis type 1 (NF1), or von Recklinghausen neurofibromatosis, is one of the most common autosomal dominant disorders in humans. Early linkage analysis mapped the NF1 gene to chromosome 17q11.2. The predicted NF1 transcript encodes a 2,818 amino acid protein designated NF1GRP. By sequence analysis, similarity has been demonstrated within a small region of NF1GRP and members of the Ras GAP gene family. Functionally, NF1GRP was shown by biochemical analysis involving Ras-GAP hydrolysis and functional complementation in yeast to further resemble GAP protein. The NF1 protein is expressed at relatively constant levels in a broad range of cell lines and tissues including brain, lung, liver, kidney, spleen, muscle and colon. Although little is known regarding the function of NF1GRP, the homology with the catalytic domain of proteins with GAP activity suggests that the NF1GRP may also interact in vivo with Ras proteins.

**CHROMOSOMAL LOCATION**

Genetic locus: NF1 (human) mapping to 17q11.2; NF1 (mouse) mapping to 11 B5.

**SOURCE**

Neurofibromin (McNFn27a) is a mouse monoclonal antibody raised against amino acids 27-41 corresponding to an N-terminal peptide of Neurofibromin 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.

**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.

**APPLICATIONS**

Neurofibromin (McNFn27a) is recommended for detection of Neurofibromin 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 Neurofibromin siRNA (h): sc-36036, Neurofibromin shRNA (m): sc-36037, Neurofibromin shRNA Plasmid (h): sc-36036-SH, Neurofibromin shRNA Plasmid (m): sc-36037-SH, Neurofibromin shRNA (h) Lentiviral Particles: sc-36036-V and Neurofibromin shRNA (m) Lentiviral Particles: sc-36037-V.

Molecular Weight of Neurofibromin: 250 kDa.

Positive Controls: H4 cell lysate: sc-2408, A-431 whole cell lysate: sc-2201 or HeLa whole cell lysate: sc-2200.

**RECOMMENDED SUPPORT REAGENTS**

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


**DATA**

![Image](image.png)

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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

See Neurofibromin (H-12): sc-376886 for Neurofibromin antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.

**PRODUCT**


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