

NgR3 (m): 293T Lysate: sc-125703

BACKGROUND

NgR3 (Nogo-66 receptor-related protein 3), also known as RTN4RL1 (reticulon 4 receptor-like 1), NGRH2 or NGRL2 (Nogo receptor-like 2), is a 441 amino acid protein that belongs to the Nogo receptor family. Localized to the cell membrane, NgR3 contains eight LRR (leucine-rich repeats). NgR3 is predominantly expressed in brain, where it localizes to the surface of neurons, but is also found at lower levels in lung, placenta, kidney, mammary gland, skeletal muscle, spleen and salivary gland. NgR3 is thought to play a role in the regulation of axonal regeneration and plasticity in the adult central nervous system. The gene that encodes NgR3 maps to human chromosome 17, which makes up over 2.5% of the human genome with about 81 million bases encoding over 1,200 genes.

REFERENCES

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- Laurén, J., Airaksinen, M.S., Saarma, M. and Timmusk, T. 2003. Two novel mammalian Nogo receptor homologs differentially expressed in the central and peripheral nervous systems. *Mol. Cell. Neurosci.* 24: 581-594.

CHROMOSOMAL LOCATION

Genetic locus: Rtn4rl1 (mouse) mapping to 11 B5.

PRODUCT

NgR3 (m): 293T Lysate represents a lysate of mouse NgR3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

NgR3 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive NgR3 antibodies. Recommended use: 10-20 µl per lane.

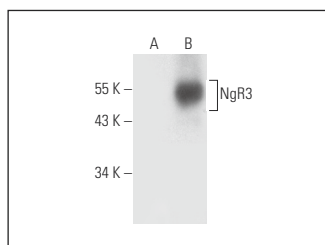
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

NgR3 (B-7): sc-398584 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse NgR3 expression in NgR3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

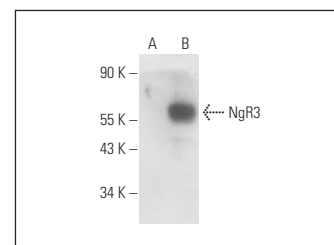
RECOMMENDED SUPPORT REAGENTS

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.

DATA



NgR3 (B-7): sc-398584. Western blot analysis of NgR3 expression in non-transfected: sc-117752 (A) and mouse NgR3 transfected: sc-125703 (B) 293T whole cell lysates.



NgR3 (H-11): sc-515400. Western blot analysis of NgR3 expression in non-transfected: sc-117752 (A) and mouse NgR3 transfected: sc-125703 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.