

RIM-BP3 (N-13): sc-99513

BACKGROUND

RIM-binding proteins (RIMBPs) serve as adaptors during vesicle fusion and release by forming links between synaptic-vesicle fusion apparatuses and calcium channels. RIMBP3 has been identified as a novel manchette-associated protein, and three members of RIMBP3 are known to exist: RIMBP3A, RIMBP3B and RIMBP3C. Each form of RIMBP3 exists as a large multidomain protein encoding three SH3-domains and two to three fibronectin III repeats. RIMBP3 plays a role in spermatid development and is required for normal sperm morphology and male fertility. RIMBP3 is found at high levels outside of the nervous system, with especially high expression in testis. RIMBP3C (RIMS binding protein 3C), also known as RIMBP3.3, or RIM-BP3.3, is a 1,545 amino acid protein. The gene encoding RIMBP3C maps to human chromosome 22q11.21.

REFERENCES

- Hahn, P. 1977. Effect of premature weaning to different diets on the subsequent response to a dietary change. *Biol. Neonate* 32: 275-279.
- Mittelstaedt, T. and Schoch, S. 2007. Structure and evolution of RIM-BP genes: identification of a novel family member. *Gene* 403: 70-79.
- Zhou, J., Du, Y.R., Qin, W.H., Hu, Y.G., Huang, Y.N., Bao, L., Han, D., Mansouri, A. and Xu, G.L. 2009. RIM-BP3 is a manchette-associated protein essential for spermiogenesis. *Development* 136: 373-382.
- Online Mendelian Inheritance in Man, OMIM[™]. 2009. Johns Hopkins University, Baltimore, MD. MIM Number: 612701. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: RIMBP3/RIMBP3B/RIMBP3C (human) mapping to 22q11.21.

SOURCE

RIM-BP3 (N-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of RIM-BP3 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99513 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

RIM-BP3 (N-13) is recommended for detection of RIM-BP3A, RIM-BP3B and RIM-BP3C of 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RIM-BP3 siRNA (h): sc-75386, RIM-BP3 shRNA Plasmid (h): sc-75386-SH and RIM-BP3 shRNA (h) Lentiviral Particles: sc-75386-V.

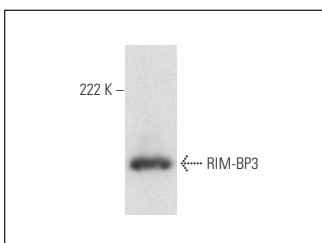
Molecular Weight of RIM-BP3: 169 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



RIM-BP3 (N-13): sc-99513. Western blot analysis of RIM-BP3 expression in Jurkat whole cell lysate.

RESEARCH USE

For research use only, not for use in diagnostic procedures.