

RMP (H-240): sc-292384

BACKGROUND

RMP (RPB5-mediating protein), also known as C19orf2, NNX3 or URI, is a 534 amino acid protein that localizes to the nucleus and belongs to the RNA polymerase II subunit 5-mediating protein family. Expressed ubiquitously, RMP functions as a component of the multi-protein URI complex and is thought to play a role in protein scaffolding that may be involved in transcription and ubiquitination. Multiple isoforms of RMP exist due to alternative splicing events. The gene encoding RMP maps to human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes.

REFERENCES

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2. Dorjsuren, D., et al. 1998. RMP, a novel RNA polymerase II subunit 5-interacting protein, counteracts transactivation by hepatitis B virus X protein. *Mol. Cell. Biol.* 18: 7546-7555.
3. Wei, W., et al. 2003. Interaction with general transcription factor IIF (TFIIF) is required for the suppression of activated transcription by RPB5-mediating protein (RMP). *Cell Res.* 13: 111-120.
4. Gstaiger, M., et al. 2003. Control of nutrient-sensitive transcription programs by the unconventional prefoldin URI. *Science* 302: 1208-1212.
5. Online Mendelian Inheritance in Man, OMIM™. 2003. Johns Hopkins University, Baltimore, MD. MIM Number: 603494. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
6. Delgermaa, L., et al. 2004. Subcellular localization of RPB5-mediating protein and its putative functional partner. *Mol. Cell. Biol.* 24: 8556-8566.
7. Djouder, N., et al. 2007. S6K1-mediated disassembly of mitochondrial URI/PP1 γ complexes activates a negative feedback program that counters S6K1 survival signaling. *Mol. Cell* 28: 28-40.

CHROMOSOMAL LOCATION

Genetic locus: C19orf2 (human) mapping to 19q13.11; C80913 (mouse) mapping to 7 B2.

SOURCE

RMP (H-240) is a rabbit polyclonal antibody raised against amino acids 1-240 mapping at the N-terminus of RMP of human origin.

PRODUCT

Each vial contains 200 μ g IgG 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.

APPLICATIONS

RMP (H-240) is recommended for detection of RMP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RMP siRNA (h): sc-97138, RMP siRNA (m): sc-106514, RMP shRNA Plasmid (h): sc-97138-SH, RMP shRNA Plasmid (m): sc-106514-SH, RMP shRNA (h) Lentiviral Particles: sc-97138-V and RMP shRNA (m) Lentiviral Particles: sc-106514-V.

Molecular Weight of RMP: 64 kDa.

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.

RESEARCH USE

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

PROTOCOLS

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


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Try **RMP (D-2): sc-376011**, our highly recommended monoclonal alternative to RMP (H-240).