

RRP7A (S-14): sc-86109

BACKGROUND

CGI-96, also known as RRP7A (ribosomal RNA processing 7 homolog A), is a 280 amino acid protein that contains one RRM domain and is encoded by a gene which maps to human chromosome 22. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, Neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia Chromosome and the subsequent production of the novel fusion protein BCR-Abl, a potent cell proliferation activator found in several types of leukemias.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RRP7A (human) mapping to 22q13.2; Rrp7a (mouse) mapping to 15 E1.

SOURCE

RRP7A (S-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of RRP7A 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-86109 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

RRP7A (S-14) is recommended for detection of RRP7A 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RRP7A siRNA (h): sc-72880, RRP7A siRNA (m): sc-108156, RRP7A shRNA Plasmid (h): sc-72880-SH, RRP7A shRNA Plasmid (m): sc-108156-SH, RRP7A shRNA (h) Lentiviral Particles: sc-72880-V and RRP7A shRNA (m) Lentiviral Particles: sc-108156-V.

Molecular Weight (predicted) of RRP7A: 32 kDa.

Molecular Weight (observed) of RRP7A: 39 kDa.

Positive Controls: TE671 cell lysate: sc-2416.

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.