

## RPIB9 (C-14): sc-165402

### BACKGROUND

RPIB9 (Rap 2-interacting protein 9), also known as RUNDC3B (RUN domain containing 3B) or RPIP9, is a 473 amino acid protein that belongs to the RUNDC3 family and interacts with Rap 2. RPIB9 exists as four alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 7q21.12. Chromosome 7 houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia.

### REFERENCES

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8. Gilbert-Dussardier, B. 2006. Williams-Beuren syndrome. *Rev. Prat.* 56: 2102-2106.
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### CHROMOSOMAL LOCATION

Genetic locus: RUNDC3B (human) mapping to 7q21.12; Runc3b (mouse) mapping to 5 A1.

### SOURCE

RPIB9 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of RPIB9 of human origin.

### PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165402 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

RPIB9 (C-14) is recommended for detection of RPIB9 of human origin and RUNDC3B of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

RPIB9 (C-14) is also recommended for detection of RPIB9 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for RPIB9 siRNA (h): sc-89862, RUNDC3B siRNA (m): sc-153177, RPIB9 shRNA Plasmid (h): sc-89862-SH, RUNDC3B shRNA Plasmid (m): sc-153177-SH, RPIB9 shRNA (h) Lentiviral Particles: sc-89862-V and RUNDC3B shRNA (m) Lentiviral Particles: sc-153177-V.

Molecular Weight of RPIB9 isoforms: 53/37/19/45 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### 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.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.