

BAF53B (V-14): sc-323503

BACKGROUND

Actin-related proteins (ARPs) are classified into ARP subclasses according to their amino acid sequence similarity to Actin. Both ARPs and Actin proteins have an ATPase domain, which catalyzes the decomposition of adenosine triphosphate (ATP) into adenosine diphosphate (ADP) and a free phosphate ion to release energy. BAF53B, also known as ACTL6B or ACTL6, is a 426 amino acid nuclear protein that belongs to the ARP family of Actin-related proteins. Thought to be involved in vesicular transport, nuclear migration and chromatin remodeling, BAF53B functions as a subunit of the BAF complex BRG1/Brm-associated factor), a structure that is functionally related to the SWI/SNF complex in *Drosophila*. The gene encoding BAF53B maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ACTL6B (human) mapping to 7q22.1; Actl6b (mouse) mapping to 5 G2.

SOURCE

BAF53B (V-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BAF53B of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-323503 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BAF53B (V-14) is recommended for detection of BAF53B of mouse, rat and human 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); non cross-reactive with BAF53.

BAF53B (V-14) is also recommended for detection of BAF53B in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for BAF53B siRNA (h): sc-105113, BAF53B siRNA (m): sc-141463, BAF53B shRNA Plasmid (h): sc-105113-SH, BAF53B shRNA Plasmid (m): sc-141463-SH, BAF53B shRNA (h) Lentiviral Particles: sc-105113-V and BAF53B shRNA (m) Lentiviral Particles: sc-141463-V.

Molecular Weight of BAF53B: 47 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.

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.