

Raver1 (A-15): sc-132783

BACKGROUND

Raver1, also known as Ribonucleoprotein PTB-binding 1, is a widely expressed 606 amino acid protein that forms complexes with microfilament-associated proteins such as vinculin, metavinculin and α -Actin at microfilament attachment sites. Localized to either the nucleus or cytoplasm, Raver1 regulates alternative splicing events by associating with hnRNP I. With three RNA recognition motifs (RRM) near the N-terminus, Raver1 is thought to function as a potent splicing co-repressor by promotion of exon skipping. In myocytes, Raver1 has been shown to translocate from the nucleus to the cytoplasm, targeting the costamere. Here, it complexes with microfilament-associated proteins during muscle cell differentiation, which suggests that Raver1 may coordinate RNA targeting and processing as required for microfilament anchoring in adhesion sites. There are three isoforms of Raver1 due to alternative splicing events.

REFERENCES

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- Gromak, N., et al. 2003. The PTB interacting protein Raver1 regulates α -Tropomyosin alternative splicing. *EMBO J.* 22: 6356-6364.
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CHROMOSOMAL LOCATION

Genetic locus: Raver1 (mouse) mapping to 9 A3.

SOURCE

Raver1 (A-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Raver1 of mouse origin.

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-132783 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Raver1 (A-15) is recommended for detection of Raver1 isoforms 1 and 2 of mouse and rat 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 family member Raver2.

Suitable for use as control antibody for Raver1 siRNA (m): sc-152717, Raver1 shRNA Plasmid (m): sc-152717-SH and Raver1 shRNA (m) Lentiviral Particles: sc-152717-V.

Molecular Weight of Raver1: 80 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 or our catalog for detailed protocols and support products.