BACKGROUND

CRP2BP (cysteine-rich protein 2-binding protein, CRP2-binding protein) is a 782 amino acid member of the cysteine- and glycine-rich protein family (CRP1, CRP2, and CRP3), which contain 2 zinc-binding LIM domains, LIM1 (amino-terminal) and LIM2 (carboxyl-terminal). This group is implicated in diverse cellular processes linked to differentiation, growth control and pathogenesis.

The LIM domain is a conserved cysteine and histidine-containing structural module of two tandemly arranged zinc fingers. It has been identified in single or multiple copies in a variety of regulatory proteins. CRP2BP specifically interacts with the double LIM domain protein CRP2. Although present in cytoplasm, CRP2BP is mainly a nuclear protein, with highest expression in skeletal muscle and heart.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: CRSP2BP (human) mapping to 20p11.23; Csrp2bp (mouse) mapping to 2 G1.

SOURCE

CRP2BP (A-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 192-215 within an internal region of CRP2BP 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.

STORAGE

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

APPLICATIONS

CRP2BP (A-11) is recommended for detection of CRP2BP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

CRP2BP (A-11) is also recommended for detection of CRP2BP in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for CRP2BP siRNA (h): sc-77030, CRP2BP siRNA (m): sc-142581, CRP2BP shRNA Plasmid (h): sc-77030-SH, CRP2BP shRNA Plasmid (m): sc-142581-SH, CRP2BP shRNA (h) Lentiviral Particles: sc-77030-V and CRP2BP shRNA (m) Lentiviral Particles: sc-142581-V.

Molecular Weight of CRP2BP: 89 kDa.

Positive Controls: CRP2BP (h): 293T Lysate: sc-172463, A2058 whole cell lysate: sc-364178 or Y79 cell lysate: sc-2240.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (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-2005 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-mouse IgG-TR: sc-2048 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA

CRP2BP (A-11): sc-398475. Western blot analysis of CRP2BP expression in non-transfected 293T: sc-117752 (A); human CRP2BP transfected 293T: sc-172463 (B); A2058 (C); A-375 (D) and Y79 (E) whole cell lysates.

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.