BACKGROUND
Cysteine-rich proteins (CRPs) participate in the organization of multiprotein complexes, both in the cytoplasm, where they participate in cytoskeletal remodeling, and in the nucleus, where they facilitate smooth muscle differentiation. CRP1 (cysteine and glycine-rich protein 1), also known as CRP, CSRPI or CYRP, is abundant in the prostate and smooth muscle lineages. It contains two LIM zinc-binding domains and is localized in the nucleus. The LIM domains of CRP1 are critical for binding to the adhesion-plaque protein Zyxin. CRP1 also interacts with α-actinin to mediate muscle differentiation. These associations indicate that the main function of CRP1 may be structural.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: CSRPI (human) mapping to 1q32.1; Csrp1 (mouse) mapping to 1 E4.

SOURCE
CRP1 (F-12) is a mouse monoclonal antibody raised against amino acids 8-96 mapping near the N-terminus of CRP1 of human origin.

PRODUCT
Each vial contains 200 µg IgG1 kappa light chain 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
CRP1 (F-12) is recommended for detection of CRP1 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

For use as control antibody for CRP1 siRNA (h): sc-45367, CRP1 siRNA (m): sc-45368, CRP1 shRNA Plasmid (h): sc-45367-SH, CRP1 shRNA Plasmid (m): sc-45368-SH, CRP1 shRNA (h) Lentiviral Particles: sc-45367-V and CRP1 shRNA (m) Lentiviral Particles: sc-45368-V.

Molecular Weight of CRP1: 23 kDa.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:

DATA

PROTOCOLS
See our web site at www.scbt.com for detailed protocols and support products.