

CRP1 (K-12): sc-33330

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, CSRP1 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.

CHROMOSOMAL LOCATION

Genetic locus: CSRP1 (human) mapping to 1q32.1; Csrp1 (mouse) mapping to 1 E4.

SOURCE

CRP1 (K-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CRP1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-33330 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-33330 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

CRP1 (K-12) is recommended for detection of CRP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

CRP1 (K-12) is also recommended for detection of CRP1 in additional species, including equine, bovine and porcine.

Suitable 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.

CRP1 (K-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

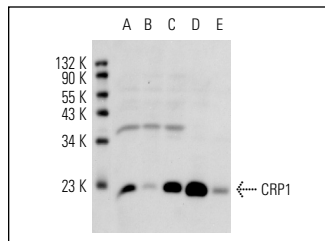
Molecular Weight of CRP1: 23 kDa.

Positive Controls: CRP1 (h): 293T Lysate: sc-114922, HeLa nuclear extract: sc-2120 or HeLa whole cell lysate: sc-2200.

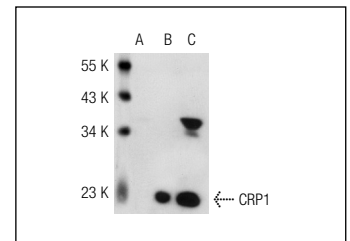
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



CRP1 (K-12): sc-33330. Western blot analysis of CRP1 expression in HeLa (A), PC-3 (B), DU 145 (C) and A-10 (D) nuclear extracts and rat lung tissue extract (E).



CRP1 (K-12): sc-33330. Western blot analysis of CRP1 expression in non-transfected 293T: sc-117752 (A), human CRP1 transfected 293T: sc-114922 (B) and HeLa (C) 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.

MONOS
Satisfaction
Guaranteed

Try **CRP1 (F-12): sc-390418** or **CRP1 (41): sc-136322**, our highly recommended monoclonal alternatives to CRP1 (K-12).