

CRP2 (E-12): sc-167547

BACKGROUND

CRP2 (cysteine-rich protein 2), also known as cysteine and glycine-rich protein 2, CSR2, LMO5 (LIM domain only protein 5) or SmLIM (smooth muscle cell LIM protein), is a 193 amino acid nuclear protein that belongs to the CRP family of LIM domain proteins. Highly expressed in smooth muscle of aorta, CRP2 is thought to have a role in embryonic vascular system development and is downregulated following cell injury or PDGF-B exposure. CRP2 contains 2 LIM zinc-binding domains and is encoded by a gene that maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

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CHROMOSOMAL LOCATION

Genetic locus: CSR2 (human) mapping to 12q21.2; Csrp2 (mouse) mapping to 10 D1.

SOURCE

CRP2 (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CRP2 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.

Blocking peptide available for competition studies, sc-167547 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CRP2 (E-12) is recommended for detection of CRP2 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); may cross-react with CRP1 or CRP3.

CRP2 (E-12) is also recommended for detection of CRP2 in additional species, including equine, bovine, porcine and avian.

Suitable for use as control antibody for CRP2 siRNA (h): sc-96135, CRP2 siRNA (m): sc-142580, CRP2 shRNA Plasmid (h): sc-96135-SH, CRP2 shRNA Plasmid (m): sc-142580-SH, CRP2 shRNA (h) Lentiviral Particles: sc-96135-V and CRP2 shRNA (m) Lentiviral Particles: sc-142580-V.

Molecular Weight of CRP2: 21 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.