

CRP2BP (A-11): sc-398475

BACKGROUND

CRP2BP (cysteine-rich protein 2-binding protein, CSR2P-binding protein) is a 782 amino acid protein encoded by the human gene CSR2BP. CRP2BP specifically interacts with the double LIM domain protein CRP2. 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, either in combination with defined functional domains, like homeodomains, or alone, like in the CRP family of LIM proteins. Members of the cysteine- and glycine-rich protein family (CRP1, CRP2 and CRP3) contain two zinc-binding LIM domains, LIM1 (amino-terminal) and LIM2 (carboxyl-terminal), and are implicated in diverse cellular processes linked to differentiation, growth control and pathogenesis. Although present in cytoplasm, CRP2BP is mainly a ubiquitously expressed nuclear protein, with highest expression in skeletal muscle and heart.

REFERENCES

- Okano, I., et al. 1993. Cloning of CRP2, a novel member of the cysteine-rich protein family with two repeats of an unusual LIM/double zinc-finger motif. *FEBS Lett.* 333: 51-55.
- Karim, M.A., et al. 1996. Human ESP1/CRP2, a member of the LIM domain protein family: characterization of the cDNA and assignment of the gene locus to chromosome 14q32.3. *Genomics* 31: 167-176.
- Konrat, R., et al. 1998. Structure of cysteine- and glycine-rich protein CRP2. Backbone dynamics reveal motional freedom and independent spatial orientation of the LIM domains. *J. Biol. Chem.* 273: 23233-23240.

CHROMOSOMAL LOCATION

Genetic locus: CSR2BP (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 IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CRP2BP (A-11) is available conjugated to agarose (sc-398475 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398475 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398475 PE), fluorescein (sc-398475 FITC), Alexa Fluor® 488 (sc-398475 AF488), Alexa Fluor® 546 (sc-398475 AF546), Alexa Fluor® 594 (sc-398475 AF594) or Alexa Fluor® 647 (sc-398475 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398475 AF680) or Alexa Fluor® 790 (sc-398475 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-398475 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

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).

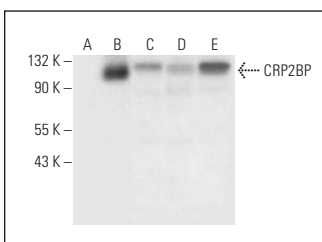
CRP2BP (A-11) is also recommended for detection of CRP2BP in additional species, including equine, bovine and porcine.

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.

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.

SELECT PRODUCT CITATIONS

- Mi, W., et al. 2017. YEATS2 links histone acetylation to tumorigenesis of non-small cell lung cancer. *Nat. Commun.* 8: 1088.
- Mi, W., et al. 2018. The ZZ-type zinc finger of ZZZ3 modulates the ATAC complex-mediated histone acetylation and gene activation. *Nat. Commun.* 9: 3759.
- Gong, Y., et al. 2024. Lysine acetyltransferase 14 mediates TGF-β-induced fibrosis in ovarian endometrioma via co-operation with serum response factor. *J. Transl. Med.* 22: 561.

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.