

CRP2BP (h): 293T Lysate: sc-172463

BACKGROUND

CRP2BP (cysteine-rich protein 2-binding protein, CSRP2-binding protein) is a 782 amino acid protein encoded by the human gene CSRP2BP. 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

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- Karim, M.A., Ohta, K., Egashira, M., Jinno, Y., Niikawa, N., Matsuda, I. and Indo, Y. 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., Kräutler, B., Weiskirchen, R. and Bister, K. 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.
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- Weiskirchen, R. and Gressner, A.M. 2000. The cysteine- and glycine-rich LIM domain protein CRP2 specifically interacts with a novel human protein (CRP2BP). *Biochem. Biophys. Res. Commun.* 274: 655-663.
- Weiskirchen, R., Moser, M., Weiskirchen, S., Erdel, M., Dahmen, S., Buettner, R. and Gressner, A.M. 2001. LIM-domain protein cysteine- and glycine-rich protein 2 (CRP2) is a novel marker of hepatic stellate cells and binding partner of the protein inhibitor of activated Stat1. *Biochem. J.* 359: 485-496.

CHROMOSOMAL LOCATION

Genetic locus: CSRP2BP (human) mapping to 20p11.23.

PRODUCT

CRP2BP (h): 293T Lysate represents a lysate of human CRP2BP transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

CRP2BP (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive CRP2BP antibodies.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

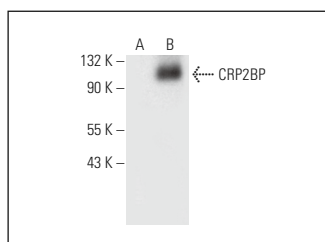
CRP2BP (A-11): sc-398475 is recommended as a positive control antibody for Western Blot analysis of enhanced human CRP2BP expression in CRP2BP transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

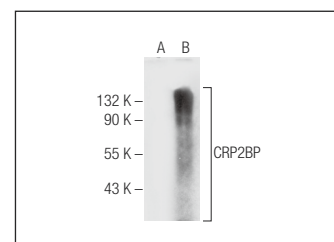
To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



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



CRP2BP (G-2): sc-390057. Western blot analysis of CRP2BP expression in non-transfected: sc-117752 (A) and human CRP2BP transfected: sc-172463 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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