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CRHSP-24 (h3): 293 Lysate: sc-177092

BACKGROUND

CRHSP-24 (calcium-regulated heat-stable protein 24) is a serine phosphoprotein originally identified as a physiological substrate for the Ca^{2+} -calmodulin regulated protein phosphatase calcineurin (PP2B). An ubiquitously expressed protein, CRHSP-24 interacts with the STYX/dead phosphate protein in developing spermatids and is a paralog of the brain-specific mRNA-binding protein PIPPIN. It is thought to play a common role in calcium-mediated signal transduction resulting from phosphorylation on serine residues. CRHSP-24 is phosphorylated on Ser 52 by Akt-1 (PKB α) in response to IGF-1, on Ser 52 by Akt-1 and RSK in response to EGF, and on Ser 41 in the absence of IGF-1/EGF by a DYRK isoform or another proline-directed protein kinase.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CARHSP1 (human) mapping to 16p13.2.

PRODUCT

CRHSP-24 (h3): 293 Lysate represents a lysate of human CRHSP-24 transfected 293 cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

APPLICATIONS

CRHSP-24 (h3): 293 Lysate is suitable as a Western Blotting positive control for human reactive CRHSP-24 antibodies. Recommended use: 10-20 μl per lane.

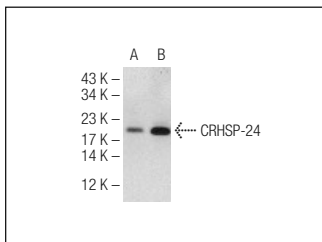
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

CRHSP-24 (A-1): sc-137072 is recommended as a positive control antibody for Western Blot analysis of enhanced human CRHSP-24 expression in CRHSP-24 transfected 293 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



CRHSP-24 (A-1): sc-137072. Western blot analysis of CRHSP-24 expression in non-transfected: sc-110760 (A) and human CRHSP-24 transfected: sc-177092 (B) 293 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.

RESEARCH USE

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

PROTOCOLS

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