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- Expressversand

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14-3-3 ζ (h6): 293 Lysate: sc-175740

BACKGROUND

14-3-3 proteins regulate many cellular processes relevant to cancer biology, notably apoptosis, mitogenic signaling and cell-cycle checkpoints. Seven isoforms comprise this family of signaling intermediates, denoted 14-3-3 β , γ , ϵ , ζ , η , θ and σ . 14-3-3 proteins form dimers that present two binding sites for ligand proteins, thereby bringing together two proteins that may not otherwise associate. These ligands largely share a 14-3-3 consensus binding motif and exhibit serine/threonine phosphorylation. 14-3-3 proteins function in broad regulation of these ligand proteins, by cytoplasmic sequestration, occupation of interaction domains and import/export sequences, prevention of degradation, activation/repression of enzymatic activity and facilitation of protein modification; loss of expression contributes to a vast array of pathogenic cellular activities.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: YWHAZ (human) mapping to 8q22.3.

PRODUCT

14-3-3 ζ (h6): 293 Lysate represents a lysate of human 14-3-3 ζ transfected 293 cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

14-3-3 ζ (h6): 293 Lysate is suitable as a Western Blotting positive control for human reactive 14-3-3 ζ antibodies. Recommended use: 10-20 μ l per lane.

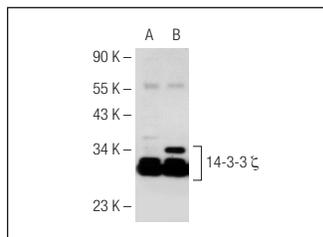
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

pan 14-3-3 (H-8): sc-1657 is recommended as a positive control antibody for Western Blot analysis of enhanced human 14-3-3 ζ expression in 14-3-3 ζ 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



pan 14-3-3 (H-8): sc-1657. Western blot analysis of 14-3-3 ζ expression in non-transfected: sc-110760 (A) and human 14-3-3 ζ transfected: sc-175740 (B) 293 whole cell lysates.

RESEARCH USE

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