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14-3-3 θ (h2): 293T Lysate: sc-116633

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, and thus loss of expression contributes to a vast array of pathogenic cellular activities.

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CHROMOSOMAL LOCATION

Genetic locus: YWHAQ (human) mapping to 2p25.1.

PRODUCT

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

APPLICATIONS

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

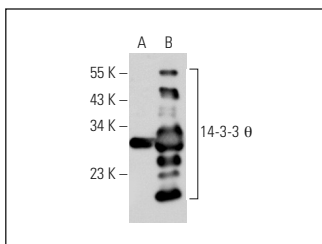
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

14-3-3 θ (5J20): sc-69720 is recommended as a positive control antibody for Western Blot analysis of enhanced human 14-3-3 θ expression in 14-3-3 θ transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

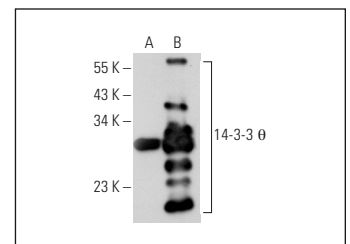
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-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



14-3-3 θ (3B9): sc-59414. Western blot analysis of 14-3-3 θ expression in non-transfected: sc-117752 (A) and human 14-3-3 θ transfected: sc-116633 (B) 293T whole cell lysates.



14-3-3 θ (5J20): sc-69720. Western blot analysis of 14-3-3 θ expression in non-transfected: sc-117752 (A) and human 14-3-3 θ transfected: sc-116633 (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.

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.