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Bag-2 (h2): 293 Lysate: sc-128081

BACKGROUND

Bag-2 (Bcl-2-associated athanogene-2), also known as Bag family molecular chaperone regulator 2, is a member of the Bag family of proteins and contains the most diverged of the characteristic C-terminal Bag domains. Via their Bag domain, Bag proteins bind with high affinity to the HSP 70/HSC 70 ATPase domain, regulating chaperone activity and apoptosis. Bag-2 is an evolutionarily-conserved cytoplasmic protein with putative N-terminal phosphorylation sites and specifically functions as an HSC 70 co-chaperone. Bag-2 is a major component of the HSC 70/CHIP chaperone-dependent ubiquitin ligase complex and acts to disrupt CHIP-mediated ubiquitylation. In this complex, Bag-2 directly interacts with the ATPase domain of HSC 70 as well as the U-box domain of CHIP and inhibits ubiquitylation by interfering with the association between CHIP and its ubiquitin conjugating enzyme.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: BAG2 (human) mapping to 6p11.2.

PRODUCT

Bag-2 (h2): 293 Lysate represents a lysate of human Bag-2 transfected 293 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

Bag-2 (h2): 293 Lysate is suitable as a Western Blotting positive control for human reactive Bag-2 antibodies. Recommended use: 10-20 µl per lane.

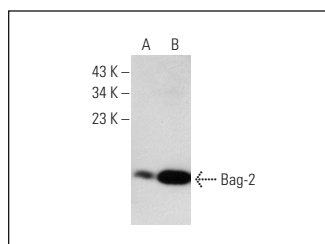
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Bag-2 (A-12): sc-101216 is recommended as a positive control antibody for Western Blot analysis of enhanced human Bag-2 expression in Bag-2 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-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



Bag-2 (A-12): sc-101216. Western blot analysis of Bag-2 expression in non-transfected: sc-110760 (A) and human Bag-2 transfected: sc-128081 (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.

PROTOCOLS

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