**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 domain. Via their Bag domain, Bag proteins bind with high affinity to the HSC 70/HSP 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 HSC70 co-chaperone. Bag-2 is an evolutionarily conserved cytoplasmic protein with putative N-terminal phosphorylation sites and specifically functions as an HSC70 co-chaperone. Bag-2 is a major component of the HSC70/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 HSC70 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**


**CHROMOSOMAL LOCATION**

Genetic locus: BAG2 (human) mapping to 6p11.2; Bag2 (mouse) mapping to 1B.

**SOURCE**

Bag-2 (C-6) is a mouse monoclonal antibody raised against amino acids 1-211 representing full length Bag-2 of human origin.

**RESEARCH USE**

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

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Bag-2 (C-6) is recommended for detection of Bag-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of Bag-2: 26 kDa.

Positive Controls: HeLa whole cell lysate: sc-2203, K-562 whole cell lysate: sc-72603, Jurkat whole cell lysate: sc-2204.

**RECOMMENDED SUPPORT REAGENTS**


**DATA**

![ Western blot analysis of Bag-2 expression in HeLa (A) and K-562 (B) whole cell lysates. ](image)

![ Western blot analysis of Bag-2 expression in HeLa (A) and Jurkat (B) whole cell lysates. ](image)

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**PROTOCOLS**

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