

## BAG-1 Antibody

*BAG-1 (CT): Bcl-2-binding athanogene-1, receptor-associated protein 46, RAP46*

**CATALOG NO.: 3869**

### BACKGROUND:

Bcl-2-associated athanogene 1 (BAG-1) was first identified as an anti-apoptotic bcl-2-binding protein (1). Later it was found to bind the molecular chaperones Hsp70 and Hsc70 through its carboxy-terminal sequence (termed the Bag domain), resulting in the inhibition of the refolding activity of these chaperones (2). It is thought that by binding and inhibiting these molecular chaperones, BAG-1 is able to modulate the expression level of proteins requiring chaperones to fold correctly. One such group of proteins that are affected is glucocorticoid receptors (3). Other reports have suggested that the level of BAG-1 expression correlates with the aggressiveness of various cancers (4). Multiple isoforms of BAG-1 are known to exist.

### SOURCE:

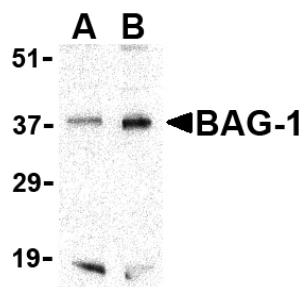
Rabbit polyclonal BAG-1 antibody was raised against a 14 amino acid peptide from near the carboxy terminus of human BAG-1 (Genbank accession No. NP\_004314).

### APPLICATION:

BAG-1 antibody can be used for the detection of BAG-1 by Western blot at 1 – 2 µg/ml. (Optimal dilution should be determined by user.) PC-3 lysate can be used as positive control. BAG-1 antibody is human, mouse and rat reactive. **This product is for research use only.**

### STORAGE:

BAG-1 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of BAG-1 in PC-3 cell lysate with BAG-1 antibody at (A) 1 and (B) 2 µg/ml.

### RELATED PRODUCTS:

Blocking Peptide, Catalog No. **3869P**.  
PC-3 Lysate, Catalog No. **1216**.  
BAG-1 Antibody (NT), Catalog No. **3871**.  
Bcl-2 Antibody (NT), Catalog No. **3335**.

### REFERENCES:

1. Takayama S, Sato T, Kraweski K, et al. Cloning and functional analysis of BAG-1: a novel Bcl2-binding protein with anti-cell death activity. *Cell* 1995; 80:279-84.
2. Nollen EAA, Brunsting JF, Song J, et al. Bag1 functions in vivo as a negative regulator of Hsp70 chaperone activity. *Mol. Cell. Biol.* 2000; 20:1083-8.
3. Cato ACB and Mink S. BAG-1 family of cochaperones in the modulation of nuclear receptor action. *J. Steroid Biochem. & Mol. Biol.* 2001; 78:379-88.
4. Kajewska M, Turner BC, Shabaik A, et al. Expression of BAG-1 protein correlates with aggressive behavior of prostate cancers. *Prostate* 2006; 66:801-10.  
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