

**Anti-BAG2 Antibody**  
Catalog # ABO11405**Specification****Anti-BAG2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O95816</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for BAG family molecular chaperone regulator 2(BAG2) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-BAG2 Antibody - Additional Information**

**Gene ID** 9532

**Other Names**

BAG family molecular chaperone regulator 2, BAG-2, Bcl-2-associated athanogene 2, BAG2

**Calculated MW**

23772 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Protein Name**

BAG family molecular chaperone regulator 2

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human BAG2(1-14aa MAQAKINAKANEGR), different from the related mouse and rat sequences by two amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be**

aliquotted and stored frozen at  $-20^{\circ}\text{C}$  for a longer time. Avoid repeated freezing and thawing.

## Anti-BAG2 Antibody - Protein Information

**Name** BAG2

### Function

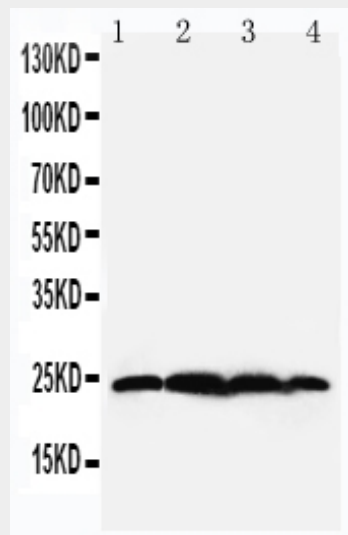
Co-chaperone for HSP70 and HSC70 chaperone proteins. Acts as a nucleotide-exchange factor (NEF) promoting the release of ADP from the HSP70 and HSC70 proteins thereby triggering client/substrate protein release (PubMed: [24318877](http://www.uniprot.org/citations/24318877) target="\_blank">24318877</a>, PubMed: [9873016](http://www.uniprot.org/citations/9873016) target="\_blank">9873016</a>).

## Anti-BAG2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-BAG2 Antibody - Images



Anti-BAG2 antibody, ABO11405, Western blotting  
Lane 1: Rat Testis Tissue Lysate  
Lane 2: HELA Cell Lysate  
Lane 3: A549 Cell Lysate  
Lane 4: A431 Cell Lysate

## Anti-BAG2 Antibody - Background

BAG family molecular chaperone regulator 2 is a protein that in humans is encoded by the BAG2

gene. The predicted BAG2 protein contains 211 amino acids. The BAG domains of BAG1, BAG2, and BAG3 interact specifically with the Hsc70 ATPase domain in vitro and in mammalian cells. All 3 proteins bind with high affinity to the ATPase domain of Hsc70 and inhibit its chaperone activity in a Hip-repressible manner. The functional antagonisms displayed between BAG family proteins and Hip suggest that a proper balance of these 2 types of protein is required for achieving optimal cycles of substrate binding and release required for inducing conformational changes in proteins, with Hip promoting peptide substrate binding by Hsc70/Hsp70 and BAG family proteins promoting dissociation.