

**Anti-Bag3 Picoband Antibody**  
**Catalog # ABO12440****Specification**

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**Anti-Bag3 Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">O95817</a>
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for BAG family molecular chaperone regulator 3(BAG3) detection. Tested with WB, IHC-P in Human;Rat.

**Reconstitution**

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

**Anti-Bag3 Picoband Antibody - Additional Information**

**Gene ID** 9531

**Other Names**

BAG family molecular chaperone regulator 3, BAG-3, Bcl-2-associated athanogene 3, Bcl-2-binding protein Bis, Docking protein CAIR-1, BAG3, BIS

**Calculated MW**

61595 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br><br>Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**Protein Name**

BAG family molecular chaperone regulator 3

**Contents**

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

**Immunogen**

E.coli-derived human Bag3 recombinant protein (Position: H100-N561). Human Bag3 shares 84.1% amino acid (aa) sequence identity with mouse Bag3.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-Bag3 Picoband Antibody - Protein Information****Name** BAG3**Synonyms** BIS**Function**

Co-chaperone and adapter protein that connects different classes of molecular chaperones including heat shock proteins 70 (HSP70s), e.g. HSPA1A/HSP70 or HSPA8/HSC70, and small heat shock proteins (sHSPs), e.g. HSPB8 (PubMed:<a href="http://www.uniprot.org/citations/27884606" target="\_blank">27884606</a>, PubMed:<a href="http://www.uniprot.org/citations/30559338" target="\_blank">30559338</a>). Acts as a nucleotide-exchange factor (NEF) promoting the release of ADP from HSP70s, thereby triggering client protein release (PubMed:<a href="http://www.uniprot.org/citations/27884606" target="\_blank">27884606</a>, PubMed:<a href="http://www.uniprot.org/citations/30559338" target="\_blank">30559338</a>). Nucleotide release is mediated via BAG3 binding to the nucleotide-binding domain (NBD) of HSP70s, whereas client release is mediated via binding to the substrate-binding domain (SBD) (PubMed:<a href="http://www.uniprot.org/citations/27474739" target="\_blank">27474739</a>, PubMed:<a href="http://www.uniprot.org/citations/9873016" target="\_blank">9873016</a>). Has anti-apoptotic activity (PubMed:<a href="http://www.uniprot.org/citations/10597216" target="\_blank">10597216</a>). Plays a role in the HSF1 nucleocytoplasmic transport (PubMed:<a href="http://www.uniprot.org/citations/26159920" target="\_blank">26159920</a>).

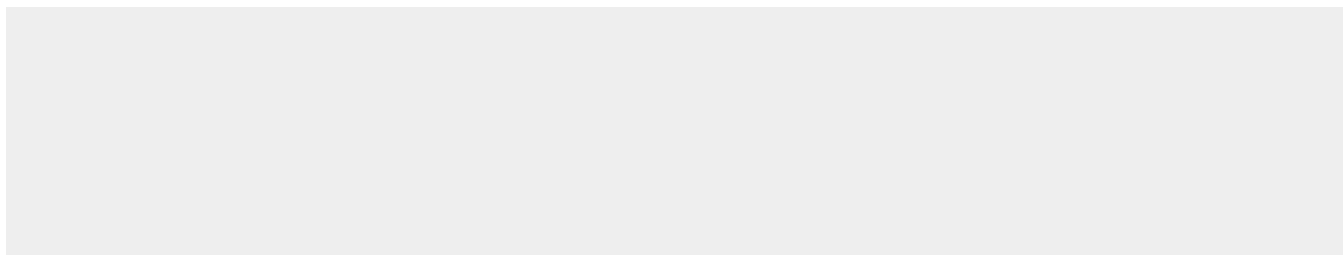
**Cellular Location**

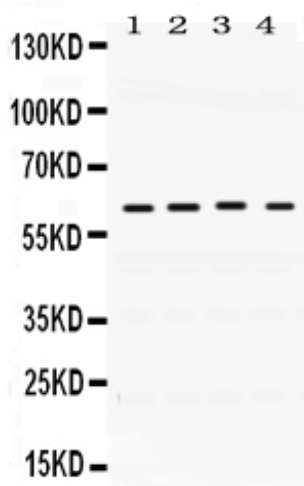
Nucleus. Cytoplasm. Note=Colocalizes with HSF1 to the nucleus upon heat stress (PubMed:26159920)

**Anti-Bag3 Picoband Antibody - Protocols**

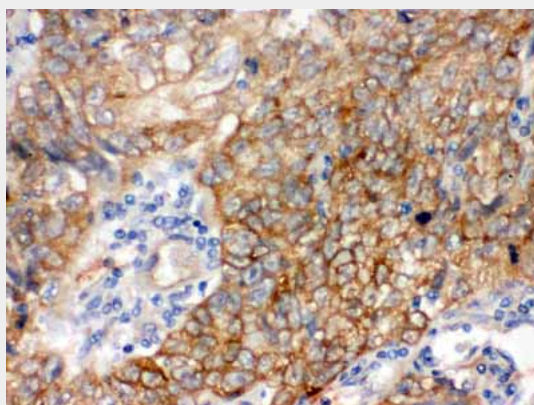
Provided below are standard protocols that you may find useful for product applications.

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

**Anti-Bag3 Picoband Antibody - Images**



Anti- Bag3 Picoband antibody, ABO12440, Western blotting All lanes: Anti Bag3 (ABO12440) at 0.5ug/ml  
Lane 1: Rat Brain Tissue Lysate at 50ug  
Lane 2: Rat Testis Tissue Lysate at 50ug  
Lane 3: MCF-7 Whole Cell Lysate at 40ug  
Lane 4: HELA Whole Cell Lysate at 40ug  
Predicted bind size: 62KD  
Observed bind size: 62KD



Anti- Bag3 Picoband antibody, ABO12440, IHC(P) IHC(P): Human Lung Cancer Tissue

#### **Anti-Bag3 Picoband Antibody - Background**

BAG family molecular chaperone regulator 3 (BAG3) is a member of a conserved family of cyto-protective proteins that bind to and regulate Hsp70 family molecular chaperones. BAG3 mutations are responsible for familial dilated cardiomyopathy. BAG3 polymorphisms are also associated with sporadic forms of the disease together with HSPB7 locus. In muscle cells, BAG3 cooperates with the molecular chaperones Hsc70 and HspB8 to induce the degradation of mechanically damaged cytoskeleton components in lysosomes. This process is called chaperone-assisted selective autophagy (CASA) and is essential for maintaining muscle activity in flies, mice and men.