

**Anti-Bag5 Picoband Antibody**  
**Catalog # ABO10336****Specification**

---

**Anti-Bag5 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9UL15</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for BAG family molecular chaperone regulator 5(BAG5) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

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

**Anti-Bag5 Picoband Antibody - Additional Information**

**Gene ID** 9529

**Other Names**

BAG family molecular chaperone regulator 5, BAG-5, Bcl-2-associated athanogene 5, BAG5, KIAA0873

**Calculated MW**

51200 MW KDa

**Application Details**

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

**Protein Name**

BAG family molecular chaperone regulator 5

**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 Bag5 recombinant protein (Position: N389-Y447). Human Bag5 shares 96.6% and 93.2% amino acid (aa) sequence identity with mouse and rat Bag5, respectively.

**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°C for a longer time. Avoid repeated freezing and thawing.

## Anti-Bag5 Picoband Antibody - Protein Information

**Name** BAG5

**Synonyms** KIAA0873

### Function

Co-chaperone for HSP/HSP70 proteins. It functions as a nucleotide-exchange factor promoting the release of ADP from HSP70, thereby activating HSP70-mediated protein refolding (PubMed:<a href="http://www.uniprot.org/citations/20223214" target="\_blank">20223214</a>). Has an essential role in maintaining proteostasis at junctional membrane complexes (JMC), where it may function as a scaffold between the HSPA8 chaperone and JMC proteins enabling correct, HSPA8-dependent JMC protein folding (By similarity). Inhibits both auto-ubiquitination of PRKN and ubiquitination of target proteins by PRKN (By similarity).

### Cellular Location

Note=In cardiomyocytes, localized at specialized membrane contact sites between T-tubules and the sarcoplasmic reticulum, known as junctional membrane complexes {ECO:0000250|UniProtKB:Q8CI32}

### Tissue Location

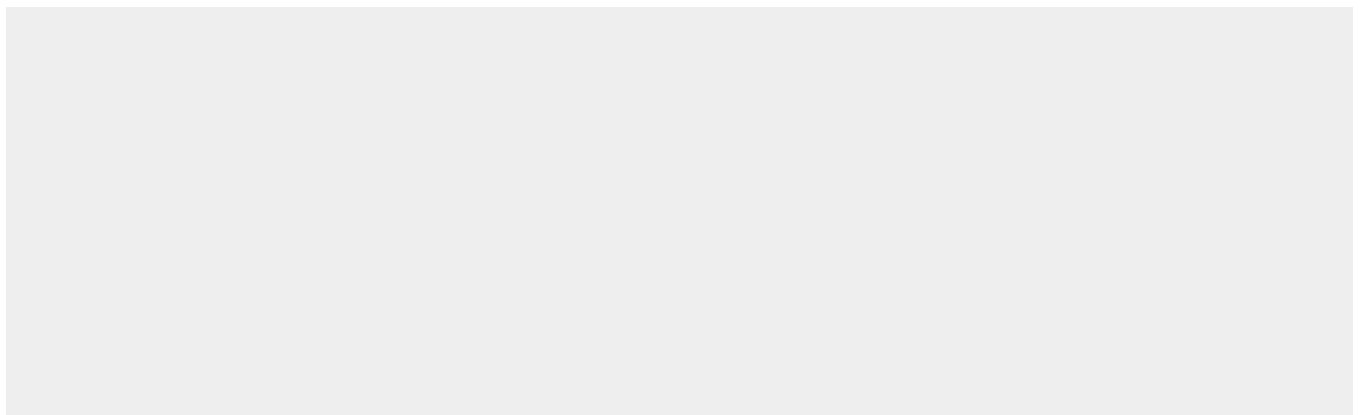
Expressed in the heart.

## Anti-Bag5 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-Bag5 Picoband Antibody - Images



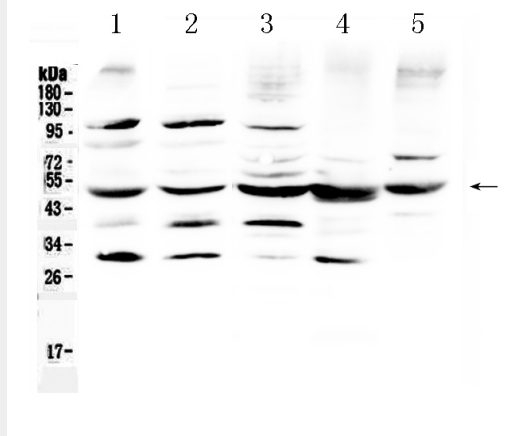


Figure 1. Western blot analysis of Bag5 using anti- Bag5 antibody (ABO10336). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates, Lane 3: HELA whole Cell lysates, Lane 4: MCF-7 whole cell lysates, Lane 5: SKOV3 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- Bag5 antigen affinity purified polyclonal antibody (Catalog # ABO10336) at 0.5  $\mu$ g/mL overnight at 4 $^{\circ}$ C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Bag5 at approximately 51KD. The expected band size for Bag5 is at 51KD.

#### Anti-Bag5 Picoband Antibody - Background

BAG family molecular chaperone regulator 5 is a protein that in humans is encoded by the BAG5 gene. It is mapped to 14q32.33. The protein encoded by this gene is a member of the BAG1-related protein family. Bag5 is a negative regulator of both Hsp70 and parkin function that sensitizes dopaminergic neurons to injury-induced death and thus promotes neurodegeneration.