10320 Camino Santa Fe, Suite G
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# Anti-BAG5 Antibody
**Catalog # ABO11407**

## Specification

### Anti-BAG5 Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC** |
| Primary Accession | Q9UL15 |
| 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, IHC-P in Human;Mouse;Rat.

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

### Anti-BAG5 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**
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Protein Name**
BAG family molecular chaperone regulator 5

**Contents**
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

**Immunogen**
A synthetic peptide corresponding to a sequence at the C-terminus of human BAG5(415-429aa QGEEKCKAARKQAVR), different from the related mouse sequence by one amino acid, and from the related rat sequence 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˚C for a longer time.Avoid repeated freezing and thawing.** |

**Sequence Similarities**
Contains 5 BAG domains.

## Anti-BAG5 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 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 Cytomety
- Cell Culture

## Anti-BAG5 Antibody - Images

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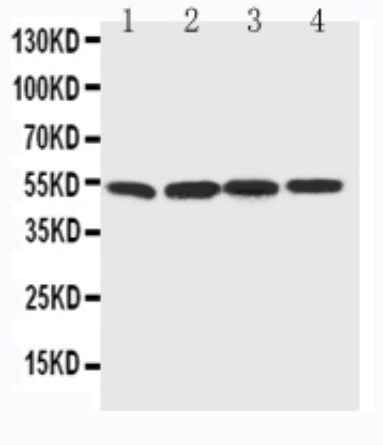
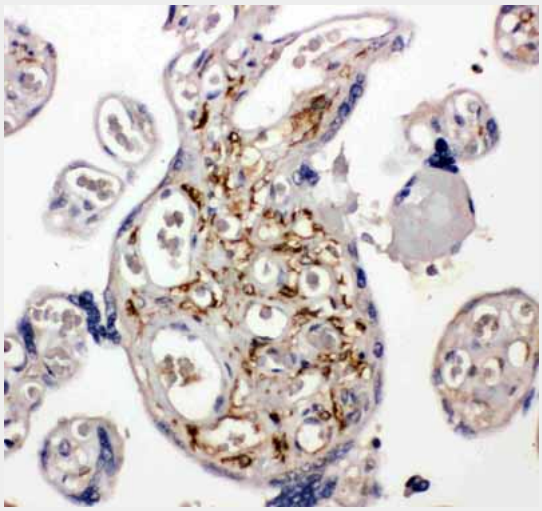



Anti-BAG5 antibody, ABO11407, Western blottingLane 1: Rat Thymus Tissue LysateLane 2: Rat Spleen Tissue LysateLane 3: Rat Testis Tissue LysateLane 4: PANC Cell Lysate



Anti-BAG5 antibody, ABO11407, IHC(P)IHC(P): Human Placenta Tissue

**Anti-BAG5 Antibody - Background**

BAG family molecular chaperone regulator 5 is a protein that in humans is encoded by the BAG5 gene. 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.