

## **Anti-BAG5 Antibody**

**Catalog # ABO11407** 

## **Specification**

## **Anti-BAG5 Antibody - Product Information**

Application WB, IHC-P
Primary Accession O9UL15
Host Rabbit

Reactivity Human, Mouse, Rat

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

#### **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:Q8Cl32}

## **Tissue Location**

Expressed in the heart.

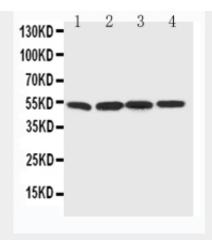
### **Anti-BAG5 Antibody - Protocols**

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

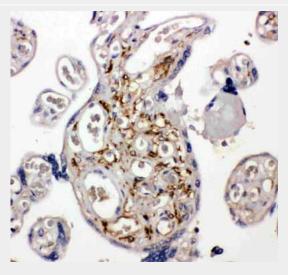
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## Anti-BAG5 Antibody - Images





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.