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Anti-Bag3 Antibody
Catalog # ABO11406

Specification

Anti-Bag3 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	O95817
Host	**Rabbit**
Reactivity	**Human, Mouse, 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;Mouse;Rat.

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

Anti-Bag3 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, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Protein Name
BAG family molecular chaperone regulator 3

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 Bag3(491-506aa LEKLEQKAIDVPGQVQ), identical to the related mouse and rat sequences.

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 1 BAG domain.

Anti-Bag3 Antibody - Protein Information

Name BAG3

Synonyms BIS

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. Nucleotide release is mediated via its binding to the nucleotide-binding domain (NBD) of HSPA8/HSC70 where as the substrate release is mediated via its binding to the substrate-binding domain (SBD) of HSPA8/HSC70 (PubMed:9873016, PubMed:27474739). Has anti-apoptotic activity (PubMed:10597216). Plays a role in the HSF1 nucleocytoplasmic transport (PubMed:26159920).

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

Anti-Bag3 Antibody - Protocols

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

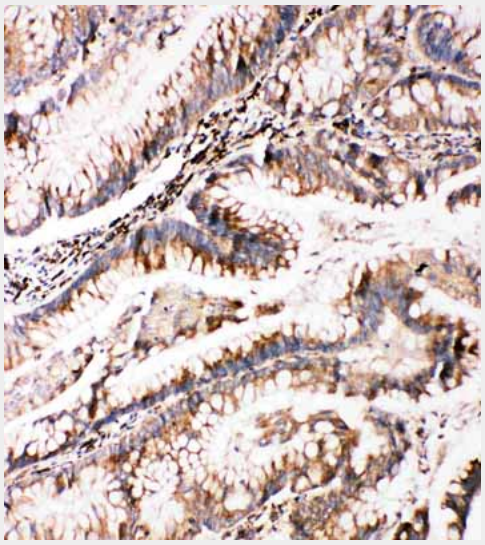
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Bag3 Antibody - Images

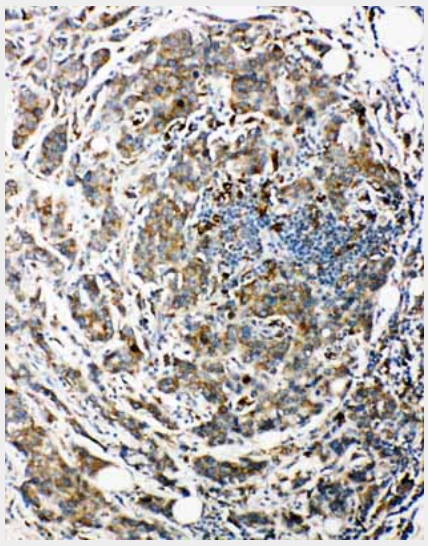
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Anti-Bag3 antibody, ABO11406, Western blottingLane 1: MCF-7 Cell LysateLane 2: JURKAT Cell LysateLane 3: A549 Cell LysateLane 4: HELA Cell LysateLane 5: COLO320 Cell Lysate



Anti-Bag3 antibody, ABO11406, IHC(P)IHC(P): Human Intestinal Cancer Tissue



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Anti-Bag3 antibody, ABO11406, IHC(P)IHC(P): Human Mammary Cancer Tissue

Anti-Bag3 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.