

### ARG43108 anti-BAG6 / BAT3 antibody

Package: 100 μl Store at: -20°C

# Summary

Product Description	Rabbit Polyclonal antibody recognizes BAG6 / BAT3	
Tested Reactivity	Hu, Ms, Rat	
Tested Application	FACS, ICC/IF, IHC-P, WB	
Host	Rabbit	
Clonality	Polyclonal	
Isotype	lgG	
Target Name	BAG6 / BAT3	
Species	Human	
Immunogen	Synthetic peptide of Human BAG6 / BAT3.	
Conjugation	Un-conjugated	
Alternate Names	BAG-6; G3; BAG6; Protein G3; BCL2-associated athanogene 6; Protein Scythe; BAT3; HLA-B-associated transcript 3; BAG family molecular chaperone regulator 6; D6S52E; Large proline-rich protein BAG6	

### **Application Instructions**

Application table	Application	Dilution
	FACS	1:20
	ICC/IF	1:50
	IHC-P	1:20 - 1:50
	WB	1:1000 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	K562	
Observed Size	~ 140 kDa	

#### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
Concentration	Batch dependent

### Bioinformation

Bioimormation	
Gene Symbol	BAG6
Gene Full Name	BCL2-associated athanogene 6
Background	This gene was first characterized as part of a cluster of genes located within the human major histocompatibility complex class III region. This gene encodes a nuclear protein that is cleaved by caspase 3 and is implicated in the control of apoptosis. In addition, the protein forms a complex with E1A binding protein p300 and is required for the acetylation of p53 in response to DNA damage. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	ATP-independent molecular chaperone preventing the aggregation of misfolded and hydrophobic patches-containing proteins (PubMed:21636303). Functions as part of a cytosolic protein quality control complex, the BAG6/BAT3 complex, which maintains these client proteins in a soluble state and participates to their proper delivery to the endoplasmic reticulum or alternatively can promote their sorting to the proteasome where they undergo degradation (PubMed:20516149, PubMed:21636303, PubMed:21743475, PubMed:28104892). The BAG6/BAT3 complex is involved in the post-translational delivery of tail-anchored/type II transmembrane proteins to the endoplasmic reticulum membrane. Recruited to ribosomes, it interacts with the transmembrane region of newly synthesized tail-anchored proteins and together with SGTA and ASNA1 mediates their delivery to the endoplasmic reticulum (PubMed:20516149, PubMed:20676083, PubMed:28104892, PubMed:25535373). Client Pateins that cannot be properly delivered to the endoplasmic reticulum are ubiquitinated by RNF126, an E3 ubiquitin-protein ligase associated with BAG6 and are sorted to the proteasome (PubMed:24981174, PubMed:28104892, PubMed:27193484). SGTA which prevents the recruitment of RNF126 to BAG6 may negatively regulate the ubiquitination and the proteasomal degradation of client proteins (PubMed:23129660, PubMed:25179605, PubMed:27193484). Similarly, the BAG6/BAT3 complex also functions as a sorting platform for proteins of the secretory pathway that are mislocalized to the cytosol either delivering them to the proteasome for degradation or to the endoplasmic reticulum (PubMed:21743475). The BAG6/BAT3 complex also plays a role in the endoplasmic reticulum freudy to chart precessome (PubMed:21636303). BAG6 is also required for selective ubiquitin-mediated degradation of defective nascent chain polypeptides by the proteasome. It maintains these retrotranslocated proteins in a unfolded yet soluble state condition in the cytosol for protessomal degradation. BAG6 may nensure the proper degra
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PTM	Ricin can induce a cleavage by the caspase CASP3. The released C-terminal peptide induces apoptosis.	
	(Microbial infection) In case of infection by L.pneumophila, ubiquitinated by the SCF(LegU1) complex. [UniProt]	
Cellular Localization	Cytoplasm, cytosol. Nucleus. Secreted, exosome. Note=Normally localized in cytosol and nucleus, it can also be released extracellularly, in exosomes, by tumor and myeloid dendritic cells. [UniProt]	

## Images

	ARG43108 anti-BAG6 / BAT3 antibody WB image
- 175 - 130 - 98 - 75	Western blot: K562 cell lysate stained with ARG43108 anti-BAG6 / BAT3 antibody at 1:1000 dilution.
- 56 - 45	
– 33 K562	