BAG5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BAG5, Polyclonal Antibody
Full Product Name	BAG5, NT (BAG5, KIAA0873, BAG family molecular chaperone regulator 5, Bcl-2-associated athanogene 5) (MaxLight 650)
Product Gene Name	anti-BAG5 antibody
Product Synonym Names	BAG5; KIAA0873; BAG family molecular chaperone regulator 5; Bcl-2-associated athanogene 5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	56,027 Da
OMIM	603885
3D Structure	ModBase 3D Structure for Q9UL15
Immunogen	BAG5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 20-50 amino acids from the N-terminal region of human BAG5.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-BAG5 antibody	Antibodies; KIAA; orf
Applications Tested/Suitable for anti-BAG5 antibody	Western Blot (WB), FLISA
Application Notes for anti-BAG5 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-BAG5 antibody	BAG5 is a member of the BAG1-related protein family. BAG1 is an anti-apoptotic protein that functions through interactions with a variety of cell apoptosis and growth related proteins including BCL-2, Raf-protein kinase, steroid hormone receptors, growth factor receptors and members of the heat shock protein 70 kDa family. This protein contains a BAG domain near the C-terminus, which could bind and inhibit the chaperone activity of Hsc70/Hsp70. Three transcript variants encoding two different isoforms have been found for this gene.
Product References and Citations for anti-BAG5 antibody	Bailey, S.D., et al. Diabetes Care (2010). In press: Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009). Kalia, S.K., et al. Neuron 44(6):931-945(2004). Takayama, S., et al. J. Biol. Chem. 274(2):781-786(1999). Hohfeld, J., et al. EMBO J. 16(20):6209-6216(1997).

Other Notes	Small volumes of anti-BAG5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BAG5 purchase	MBS6277556 is an antibody targeting BAG5. Also known as BAG5, NT (BAG5, KIAA0873, BAG family molecular chaperone regulator 5, Bcl-2-associated athanogene 5) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BAG5. It may not necessarily be applicable to this product.

NCBI GI #	62548854
NCBI GeneID	9529
NCBI Accession #	NP_001015048.1
NCBI Related Accession #	NP_004864.1
UniProt Primary Accession #	Q9UL15
UniProt Secondary Accession #	O94950; Q86W59
UniProt Related Accession #	Q9UL15
GenBank Nucleotide #	NM_001015048.2
NCBI Official Full Name	BAG family molecular chaperone regulator 5 isoform b
NCBI Official Synonym Full Names	BCL2-associated athanogene 5
NCBI Official Symbol	BAG5
NCBI Official Synonym Symbols	BAG-5
UniProt Protein Name	BAG family molecular chaperone regulator 5
UniProt Synonym Protein Names	Bcl-2-associated athanogene 5
Protein Family	BAG family molecular chaperone regulator
UniProt Gene Name	BAG5
UniProt Synonym Gene Names	KIAA0873; BAG-5
UniProt Entry Name	BAG5_HUMAN
NCBI Protein Information	BAG family molecular chaperone regulator 5; bcl-2-associated athanogene 5; BAG-family molecular chaperone regulator-5
NCBI Summary for BAG5	The protein encoded by this gene is a member of the BAG1-related protein family. BAG1 is an anti-apoptotic protein that functions through interactions with a variety of cell apoptosis and growth related proteins including BCL-2, Raf-protein kinase, steroid hormone receptors, growth factor receptors and members of the heat shock protein 70 kDa family. This protein contains a BAG domain near the C-terminus, which could bind and inhibit the chaperone activity of Hsc70/Hsp70. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for BAG5	BAG5: Inhibits both auto-ubiquitination of PARK2 and ubiquitination of target proteins by PARK2. May function as a nucleotide exchange factor for HSP/HSP70, promoting ADP release, and activating Hsp70-mediated refolding. 2 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 14q32.33 Cellular Component: membrane; mitochondrion; perinuclear region of cytoplasm; inclusion body; nucleus Molecular Function: protein binding; chaperone binding; ubiquitin protein ligase binding; protein kinase binding Biological Process: protein folding; negative regulation of ubiquitin-protein ligase activity; negative regulation of protein ubiquitination; negative regulation of proteasomal ubiquitin-dependent protein catabolic process
Research Articles on BAG5	**1.** BAG5 protects against mitochondrial oxidative damage through regulating PINK1 degradation.
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