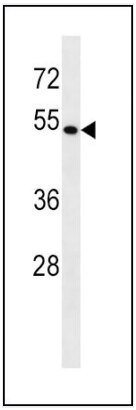
BAG4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BAG4, Polyclonal Antibody
Full Product Name	BAG4, CT (BAG4, SODD, BAG family molecular chaperone regulator 4, Bcl-2-associated athanogene 4, Silencer of death domains) (APC)
Product Gene Name	anti-BAG4 antibody
Product Synonym Names	BAG4; SODD; BAG family molecular chaperone regulator 4; Bcl-2-associated athanogene 4; Silencer of death domains
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 Allophycocyanin (APC).
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: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	603884
3D Structure	ModBase 3D Structure for O95429
Immunogen	BAG4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 380-409 amino acids from the C-terminal region of human BAG4.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-BAG4 antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-BAG4 antibody	Western Blot (WB), FLISA
Application Notes for anti-BAG4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-BAG4 antibody	BAG4 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. This protein was found to be associated with the death domain of tumor necrosis factor receptor type 1 (TNF-R1) and death receptor-3 (DR3), and thereby negatively regulates downstream cell death signaling. The regulatory role of this protein in cell death was demonstrated in epithelial cells which undergo apoptosis while integrin mediated matrix contacts are lost.

Product References and Citations for anti-BAG4 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). Tao, H.F., et al. Zhongguo Shi Yan Xue Ye Xue Za Zhi 15(3):501-505(2007). Riley, B.M., et al. Am. J. Med. Genet. A 143A (8), 846-852 (2007): Yang, Z.Q., et al. Cancer Res. 66(24):11632-11643(2006).
Other Notes	Small volumes of anti-BAG4 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 BAG4 purchase	MBS6277538 is an antibody targeting BAG4. Also known as BAG4, CT (BAG4, SODD, BAG family molecular chaperone regulator 4, Bcl-2-associated athanogene 4, Silencer of death domains) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-BAG4 antibody
BAG4 Antibody (C-term) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the BAG4 antibody detected the BAG4 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BAG4. It may not necessarily be applicable to this product.

NCBI GI #	6631075
NCBI GeneID	9530
NCBI Accession #	NP_004865.1
UniProt Primary Accession #	O95429
UniProt Related Accession #	O95429
GenBank Nucleotide #	NM_004874.3
NCBI Official Full Name	BAG family molecular chaperone regulator 4 isoform 1
NCBI Official Synonym Full Names	BCL2 associated athanogene 4
NCBI Official Symbol	BAG4
NCBI Official Synonym Symbols	SODD; BAG-4
UniProt Protein Name	BAG family molecular chaperone regulator 4
UniProt Synonym Protein Names	Bcl-2-associated athanogene 4; Silencer of death domains
Protein Family	BAG family molecular chaperone regulator
UniProt Gene Name	BAG4
UniProt Synonym Gene Names	SODD; BAG-4
UniProt Entry Name	BAG4_HUMAN
NCBI Protein Information	BAG family molecular chaperone regulator 4

NCBI Summary for BAG4	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. This protein was found to be associated with the death domain of tumor necrosis factor receptor type 1 (TNF-R1) and death receptor-3 (DR3), and thereby negatively regulates downstream cell death signaling. The regulatory role of this protein in cell death was demonstrated in epithelial cells which undergo apoptosis while integrin mediated matrix contacts are lost. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Mar 2011]
UniProt Comments for BAG4	BAG4: Inhibits the chaperone activity of HSP70/HSC70 by promoting substrate release. Prevents constitutive TNFRSF1A signaling. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis Chromosomal Location of Human Ortholog: 8p11.23 Cellular Component: plasma membrane; nucleus; cytosol Molecular Function: protein binding; chaperone binding; receptor signaling protein activity Biological Process: positive regulation of protein kinase B signaling cascade; positive regulation of cell adhesion; protein folding; positive regulation of actin filament polymerization; protein heterooligomerization; positive regulation of stress fiber formation; positive regulation of peptidyl-serine phosphorylation; negative regulation of apoptosis
Research Articles on BAG4	**1.** AGS cells overexpressing BAG4 exhibited a significant increase in the percentage of cells in the G1/G0 peak and transfection of shRNA decrese demonstrated the opposite effect.
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