BAG4 Antibody

PRODUCT OVERVIEW

Product Name	BAG4, Antibody
Full Product Name	BAG4 Antibody
Product Gene Name	anti-BAG4 antibody
Product Synonym Names	BAG family molecular chaperone regulator 4; BAG-4; BAG-family molecular chaperone regulator-4; BAG4; Bcl-2-associated athanogene 4; BCL2-associated athanogene 4; Silencer of death domains; SODD
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	BAG4 Antibody detects endogenous levels of total BAG4
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	45,410 Da
OMIM	603884
3D Structure	ModBase 3D Structure for O95429
Immunogen	A synthesized peptide
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-BAG4 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-BAG4 antibody	WB: 1:500~1:1000 IHC: 1:50~1:200
Related Product Information for anti-BAG4 antibody	MBS8515472 is an antibody targeting BAG4. Also known as BAG4 Antibody. Reactive in Human, Mouse, Rat.
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.

ADDITIONAL DETAILS

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

NCBI GI #	325910869
NCBI GeneID	9530
NCBI Accession #	NP_001191807.1
UniProt Primary Accession #	O95429
UniProt Secondary Accession #	O95818; B4E217
UniProt Related Accession #	O95429
GenBank Nucleotide #	NM_001204878.1

NCBI Official Full Name	BAG family molecular chaperone regulator 4 isoform 2
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
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	Inhibits the chaperone activity of HSP70/HSC70 by promoting substrate release (). Prevents constitutive TNFRSF1A signaling. Negative regulator of PRKN translocation to damaged mitochondria.
Research Articles on BAG4	**1.** acid-induced increase in SODD expression and decrease in cell apoptosis may depend on the activation of NOX5-S and NF-kappaB1 p50 in FLO cells
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