BAG1 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	BAG1, Blocking Peptide
Full Product Name	BAG1 Blocking Peptide
Product Gene Name	BAG1 blocking peptide
Product Synonym Names	HAP; BAG family molecular chaperone regulator 1; BAG-1; Bcl-2-associated athanogene 1
Host	Synthetic
Species Reactivity	Human, Mouse
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	BAG1 peptide (MBS8211018) is used for blocking the activity of BAG1 antibody (MBS8204417)
Molecular Weight	25,989 Da
OMIM	601497
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Directions for Use	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Applications Tested/Suitable for BAG1 blocking peptide	Blocking (BL)
Related Product Information for BAG1 blocking peptide	MBS8211018 is a blocking peptide targeting BAG1. Reactive in Human, Mouse. Host: Synthetic. The peptide is used to block Anti-BAG1 Antibody reactivity.
Other Notes	Small volumes of BAG1 blocking peptide 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 BAG1. It may not necessarily be applicable to this product.

NCBI GI #	288915527
NCBI GeneID	573
NCBI Accession #	NP_001165886.1
UniProt Primary Accession #	Q99933
UniProt Secondary Accession #	O75315; Q14414; Q53H32; Q5VZE8; Q5VZE9; Q5VZF0; Q96TG2; Q9Y2V4
UniProt Related Accession #	Q99933
GenBank Nucleotide #	NM_001172415.1
NCBI Official Full Name	BAG family molecular chaperone regulator 1 isoform BAG-1S
NCBI Official Synonym Full Names	BCL2-associated athanogene

NCBI Official Symbol	BAG1
NCBI Official Synonym Symbols	HAP; BAG-1; RAP46
UniProt Protein Name	BAG family molecular chaperone regulator 1
UniProt Synonym Protein Names	Bcl-2-associated athanogene 1
Protein Family	BAG family molecular chaperone regulator
UniProt Gene Name	BAG1
UniProt Synonym Gene Names	HAP; BAG-1
UniProt Entry Name	BAG1_HUMAN
NCBI Protein Information	BAG family molecular chaperone regulator 1
NCBI Summary for BAG1	The oncogene BCL2 is a membrane protein that blocks a step in a pathway leading to apoptosis or programmed cell death. The protein encoded by this gene binds to BCL2 and is referred to as BCL2-associated athanogene. It enhances the anti-apoptotic effects of BCL2 and represents a link between growth factor receptors and anti-apoptotic mechanisms. Multiple protein isoforms are encoded by this mRNA through the use of a non-AUG (CUG) initiation codon, and three alternative downstream AUG initiation codons. A related pseudogene has been defined on chromosome X. [provided by RefSeq, Feb 2010]
UniProt Comments for BAG1	BAG1: Inhibits the chaperone activity of HSP70/HSC70 by promoting substrate release. Inhibits the pro-apoptotic function of PPP1R15A, and has anti-apoptotic activity. Markedly increases the anti-cell death function of BCL2 induced by various stimuli. Homodimer. Forms a heteromeric complex with HSP70/HSC70. Binds to the ATPase domain of HSP/HSC70 chaperones. Isoform 1, isoform 3 and isoform 4 but not isoform 2 interact with HSPA8/HSC70. Interacts with NR3C1. Interacts with the N-terminal region of STK19. Interacts with PPP1R15A. Interacts with BCL2 in an ATP-dependent manner. Isoform 2 does not interact with BCL2. Up-regulated during differentiation of bladder epithelial cells and down-regulated during differentiation of prostate epithelium. Isoform 4 is the most abundantly expressed isoform. It is ubiquitously expressed throughout most tissues, except the liver, colon, breast and uterine myometrium. Isoform 1 is expressed in the ovary and testis. Isoform 4 is expressed in several types of tumor cell lines, and at consistently high levels in leukemia and lymphoma cell lines. Isoform 1 is expressed in the prostate, breast and leukemia cell lines. Isoform 3 is the least abundant isoform in tumor cell lines. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 9p12 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding; chaperone binding; receptor signaling protein activity Biological Process: cell surface receptor linked signal transduction; apoptosis; negative regulation of apoptosis
Research Articles on BAG1	**1.** The expression of BAG-1 was upregulated in chronic non-eosinophilic rhinosinusitis.
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