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BAG5 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP16429a

Specification

BAG5 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9UL15

BAG5 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 9529

Other Names
BAG family molecular chaperone regulator 5, BAG-5, Bcl-2-associated athanogene 5, BAG5, KIAA0873

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BAG5 Antibody (N-term) Blocking Peptide - Protein Information

Name BAG5

Synonyms KIAA0873

Function
Co-chaperone for HSP/HSP70 proteins. It functions as a nucleotide-exchange factor promoting the release of ADP from HSP70, thereby activating HSP70-mediated protein refolding (PubMed:20223214). Has an essential role in maintaining proteostasis at junctional membrane complexes (JMC), where it may function as a scaffold between the HSPA8 chaperone and JMC proteins enabling correct, HSPA8-dependent JMC protein folding (By similarity). Inhibits both auto-ubiquitination of PRKN and ubiquitination of target proteins by PRKN (By similarity).

Cellular Location
Note=In cardiomyocytes, localized at specialized membrane contact sites between T-tubules and the sarcoplasmic reticulum, known as junctional membrane complexes {ECO:0000250|UniProtKB:Q8CI32}

Tissue Location
Expressed in the heart.

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BAG5 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

BAG5 Antibody (N-term) Blocking Peptide - Images

BAG5 Antibody (N-term) Blocking Peptide - Background

BAG5 is a member of theBAG1-related protein family. BAG1 is an anti-apoptotic protein thatfunctions through interactions with a variety of cell apoptosis andgrowth related proteins including BCL-2, Raf-protein kinase,steroid hormone receptors, growth factor receptors and members ofthe heat shock protein 70 kDa family. This protein contains a BAGdomain near the C-terminus, which could bind and inhibit thechaperone activity of Hsc70/Hsp70. Three transcript variantsencoding two different isoforms have been found for this gene.

BAG5 Antibody (N-term) Blocking Peptide - References

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)