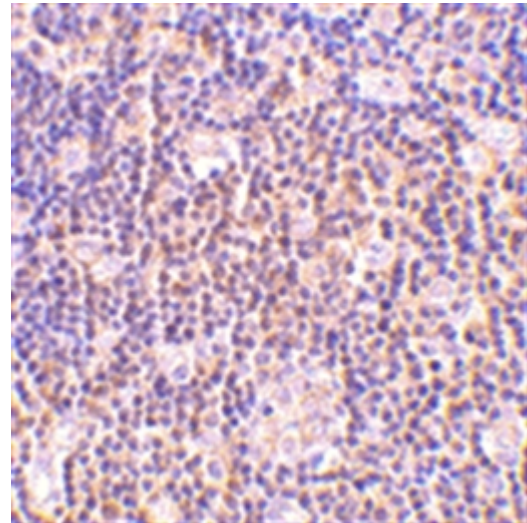


Polyclonal Antibody to BAG1 (N-term) - Purified

Alternate names:	BAG family molecular chaperone regulator 1, BAG-1, Bcl-2-associated athanogene 1, Glucocorticoid receptor-associated protein RAP46, HAP, RAP46
Catalog No.:	AP05586PU-S
Quantity:	50 µg
Concentration:	1.0 mg/ml
Background:	<p>BAG1 is a co-chaperone protein which binds to and regulates the 70kD heat shock proteins (Hsp70/Hsc70). BAG1 has also been shown to interact with the kinase Raf1, a number of steroid and tyrosine kinase receptors, and the Bcl-2 family of proteins. It is thought to function as a molecular switch between cell growth and differentiation, and cell survival. The <i>BAG1</i> gene encodes three different isoforms; a predominantly cytosolic form of 36kD (BAG1S), a 46kD cytosolic and nuclear form (BAG1M), and a predominantly nuclear form 50kD (BAG1L).</p> <p>BAG1 displays potent neuroprotective activity in vivo against stroke, and could be used for reducing brain injury during cerebral ischemia and neurodegenerative diseases. BAG1 may also promote chemoresistance, growth factor independence, and anchorage independent cell growth in tumour cells.</p>
Uniprot ID:	Q99933
NCBI:	NP_001165886.1
GeneID:	573
Host / Isotype:	Rabbit / IgG
Immunogen:	14 amino acid peptide near the amino terminus of human BAG1.
Format:	State: Liquid Ig fraction Purification: Affinity chromatography Buffer System: Phosphate buffered saline containing 0.02% Sodium Azide
Applications:	Western blot: 1 - 2 µg/ml; detects a band of approximately 35kDa in PC3 cell lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects an epitope within the N-terminal (NT) region of Bcl-2 associated athanogene-1 (BAG1).
Species Reactivity:	Tested: Human, Mouse.
Storage:	Store the antibody undiluted at 2-8°C for up to one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

- General Readings:**
1. Götz R, Wiese S, Takayama S, Camarero GC, Rossoll W, Schweizer U, et al. Bag1 is essential for differentiation and survival of hematopoietic and neuronal cells. *Nat Neurosci*. 2005 Sep;8(9):1169-78. Epub 2005 Aug 21. PubMed PMID: 16116448.
 2. Liman J, Ganesan S, Dohm CP, Krajewski S, Reed JC, Bähr M, et al. Interaction of BAG1 and Hsp70 mediates neuroprotectivity and increases chaperone activity. *Mol Cell Biol*. 2005 May;25(9):3715-25. PubMed PMID: 15831476.
 3. Krajewska M, Turner BC, Shabaik A, Krajewski S, Reed JC. Expression of BAG-1 protein correlates with aggressive behavior of prostate cancers. *Prostate*. 2006 Jun 1;66(8):801-10. PubMed PMID: 16482527.
 4. Clemo NK, Arhel NJ, Barnes JD, Baker J, Moorghen M, Packham GK, et al. The role of the retinoblastoma protein (Rb) in the nuclear localization of BAG-1: implications for colorectal tumour cell survival. *Biochem Soc Trans*. 2005 Aug;33(Pt 4):676-8. PubMed PMID: 16042572.

Pictures: Immunohistochemical staining of human lymph node with Rabbit anti Human BAG1 (AP05586PU-N)



Western blot analysis of whole cell lysate from PC-3 human prostate cancer cells probed with Rabbit anti Human BAG1 (AP05586PU-N) at 1(A) and 2(B) µg/ml

