

**Bag-1 Polyclonal Antibody**  
**Catalog # AP73543****Specification**

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**Bag-1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q99933</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

**Bag-1 Polyclonal Antibody - Additional Information****Gene ID** 573**Other Names**

BAG1; HAP; BAG family molecular chaperone regulator 1; BAG-1; Bcl-2-associated athanogene 1

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Bag-1 Polyclonal Antibody - Protein Information****Name** BAG1**Synonyms** HAP**Function**

Co-chaperone for HSP70 and HSC70 chaperone proteins. Acts as a nucleotide-exchange factor (NEF) promoting the release of ADP from the HSP70 and HSC70 proteins thereby triggering client/substrate protein release. Nucleotide release is mediated via its binding to the nucleotide-binding domain (NBD) of HSPA8/HSC70 where as the substrate release is mediated via its binding to the substrate-binding domain (SBD) of HSPA8/HSC70 (PubMed:<a href="http://www.uniprot.org/citations/24318877" target="\_blank">24318877</a>, PubMed:<a href="http://www.uniprot.org/citations/27474739" target="\_blank">27474739</a>, PubMed:<a href="http://www.uniprot.org/citations/9873016" target="\_blank">9873016</a>). Inhibits the pro-apoptotic function of PPP1R15A, and has anti-apoptotic activity (PubMed:<a href="http://www.uniprot.org/citations/12724406" target="\_blank">12724406</a>). Markedly increases the anti-cell death function of BCL2 induced by various stimuli (PubMed:<a href="http://www.uniprot.org/citations/9305631" target="\_blank">9305631</a>). Involved in the STUB1-mediated proteasomal degradation of ESR1 in response to age-related circulating estradiol (17-beta-estradiol/E2) decline, thereby promotes neuronal apoptosis in response to ischemic

reperfusion injury (By similarity).

#### Cellular Location

[Isoform 1]: Nucleus. Cytoplasm. Note=Isoform 1 localizes predominantly to the nucleus [Isoform 4]: Cytoplasm. Nucleus. Note=Isoform 4 localizes predominantly to the cytoplasm. The cellular background in which it is expressed can influence whether it resides primarily in the cytoplasm or is also found in the nucleus. In the presence of BCL2, localizes to intracellular membranes (what appears to be the nuclear envelope and perinuclear membranes) as well as punctate cytosolic structures suggestive of mitochondria

#### Tissue Location

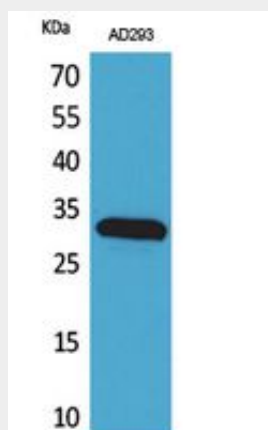
Isoform 4 is the most abundantly expressed isoform. It is ubiquitously expressed throughout most tissues, except the liver, colon, breast and uterine myometrium. Isoform 1 is expressed in the ovary and testis. Isoform 4 is expressed in several types of tumor cell lines, and at consistently high levels 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 (at protein level).

### Bag-1 Polyclonal Antibody - Protocols

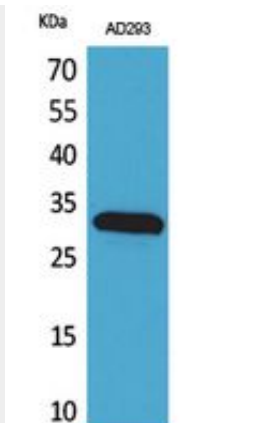
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Bag-1 Polyclonal Antibody - Images



Western Blot analysis of AD293 cells using Bag-1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Western Blot analysis of AD293 cells using Bag-1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

### **Bag-1 Polyclonal Antibody - Background**

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