

Bag1 Antibody

Rabbit mAb Catalog # AP92820

Product Information

Application WB, IHC, IF, ICC, IHF

Primary Accession <u>Q99933</u>

Reactivity Rat, Human, Mouse

Clonality Monoclonal

Other Names BAG1; HAP1; RAP46;

IsotypeRabbit IgGHostRabbitCalculated MW38779

Additional Information

Dilution WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human Bag1

Description 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.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

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:24318877, PubMed:27474739, PubMed:9873016). Inhibits the

pro-apoptotic function of PPP1R15A, and has anti-apoptotic activity (PubMed:12724406). Markedly increases the anti-cell death function of BCL2

induced by various stimuli (PubMed:<u>9305631</u>). 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).

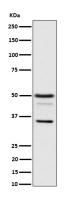
Cellular Location

[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).

Images



Western blot analysis of Bag1 expression in HeLa cell lysate.

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