

BAG1

Purified Mouse Monoclonal Antibody Catalog # AO2566a

Product Information

Application WB, IHC, ICC, E

Primary Accession

Reactivity
Host
Clonality
Clone Names
Sotype
Calculated MW

Q99933
Human
Mouse
Clonal
Mouse
Monoclonal
2F7A11
Mouse IgG1
38779

Immunogen Purified recombinant fragment of human BAG1 (AA: 219-346) expressed in E.

Coli.

Formulation Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID 573

Other Names HAP; BAG-1; RAP46

Dilution WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000

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

at -20°C in small aliquots to prevent freeze-thaw cycles.

PrecautionsBAG1 is for research use only and not for use in diagnostic or therapeutic

procedures.

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: 9305631). 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).

References

1.Oncol Rep. 2014 Oct;32(4):1441-6.2.Cell Physiol Biochem. 2014;33(2):365-74.

Images

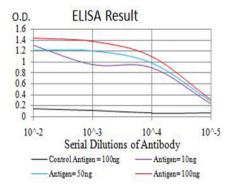


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

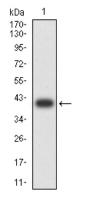
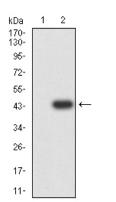


Figure 2:Western blot analysis using BAG1 mAb against human BAG1 (AA: 219-346) recombinant protein. (Expected MW is 40.6 kDa)

Figure 3:Western blot analysis using BAG1 mAb against HEK293 (1) and BAG1 (AA: 219-346)-hIgGFc transfected



HEK293 (2) cell lysate.

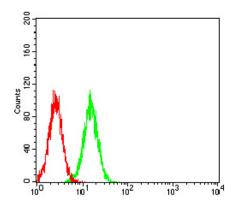


Figure 4:Flow cytometric analysis of HeLa cells using BAG1 mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.