

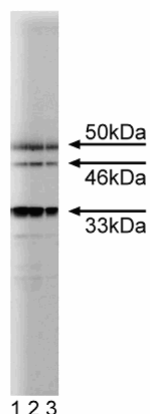
Technical Data Sheet

Purified Mouse Anti-Human BAG-1**Product Information**

Material Number:	611868
Size:	50 µg
Concentration:	250 µg/ml
Clone:	19/BAG-1
Immunogen:	Human BAG-1 aa. 155-258
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Target MW:	50, 46 & 33 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Members of the Bcl-2 protein family function to inhibit (Bcl-2, Bcl-XL, Mcl-1, A1) or promote (Bax, Bak, Bcl-Ls, Bad, Bid, Bim, Bik) apoptosis. Bcl-2-associated athanogene-1 (BAG-1) was identified through its interaction with Bcl-2 family proteins. BAG-1 protein has been reported to be expressed as at least three isoforms, 50 kDa (BAG-1L), 46 kDa (BAG-1M/RAP46), and 33 kDa (BAG-1S), which contain conserved C-terminal regions that have an Hsp70-binding domain (HBD). BAG-1M was also identified as RAP46, a protein that binds steroid hormone receptors. BAG-1M is transported to the nucleus along with the ligand-bound glucocorticoid receptor (GR), where it downregulates GR binding to DNA in an Hsp70-dependent manner. In the Hsp70-Hip chaperone system, BAG-1M/RAP46 acts as a negative regulator of Hsp70 chaperone activity, while in the Hsc70-dj systems, BAG-1 acts as a positive cochaperone. BAG-1 mRNA is ubiquitously expressed in cells and tissues, while BAG-1L protein is preferentially expressed in many tumor cell lines. Thus, BAG-1 isoforms are multifunctional proteins that may be involved in protein folding, hormone receptor signaling, and malignant transformation.



Western blot analysis of BAG-1 on a HeLa cell lysate
(Human cervical epitheloid carcinoma; ATCC CCL-2.2).
Lane 1: 1:15,000, lane 2: 1:30,000, lane 3: 1:60,000 dilution
of the mouse anti-human BAG-1 antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20° C.

Application Notes**Application**

Western blot	Routinely Tested
Immunofluorescence	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
611449	HeLa Cell Lysate	500 µg	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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