

Basic Information

Product Name	Anti-BAG2 Antibody (Clone#8F11G2)
Gene Name	BAG2
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human, mouse
Tested Application	WB, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human BAG2 recombinant protein (Position: M1-N211). Human BAG2 shares 93.4% amino acid (aa) sequence identity with mouse BAG2.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	24 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed):1:50-200

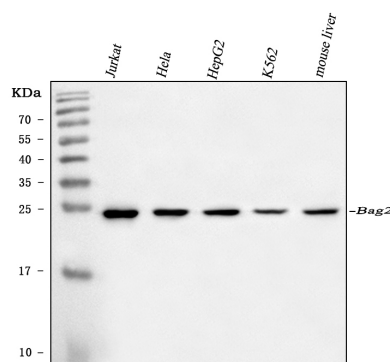
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

BAG family molecular chaperone regulator 2 is a protein that in humans is encoded by the BAG2 gene. The predicted BAG2 protein contains 211 amino acids. The BAG domains of BAG1, BAG2, and BAG3 interact specifically with the Hsc70 ATPase domain in vitro and in mammalian cells. All 3 proteins bind with high affinity to the ATPase domain of Hsc70 and inhibit its chaperone activity in a Hip-repressible manner. The functional antagonisms displayed between BAG family proteins and Hip suggest that a proper balance of these 2 types of protein is required for achieving optimal cycles of substrate binding and release required for inducing conformational changes in proteins, with Hip promoting peptide substrate binding by Hsc70/Hsp70 and BAG family proteins promoting dissociation.

Selected Validation Data



Western blot analysis of BAG2 using anti-BAG2 antibody (M04933-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Jurkat whole cell lysates,

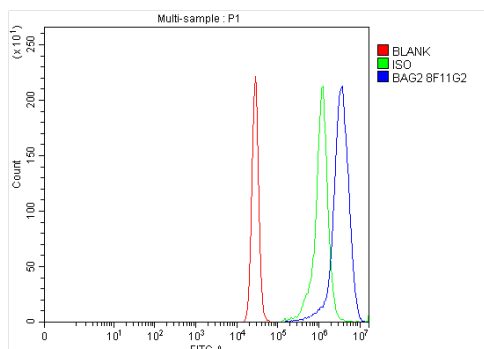
Lane 2: Hela whole cell lysates,

Lane 3: HepG2 whole cell lysates,

Lane 4: K562 whole cell lysates,

Lane 5: mouse liver tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-BAG2 antigen affinity purified monoclonal antibody (M04933-2) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for BAG2 at approximately 24 kDa. The expected band size for BAG2 is at 24 kDa.



Flow Cytometry analysis of K562 cells using anti-BAG2 antibody (M04933-2).

Overlay histogram showing K562 cells stained with M04933-2 (Blue line).

To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-BAG2 Antibody (M04933-2) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.