

Product datasheet for **TA337170**

BAG3 Rabbit Polyclonal Antibody

Product data:

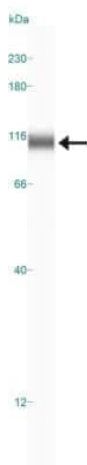
Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, IP, Simple Western, WB
Recommended Dilution:	Immunohistochemistry, Immunohistochemistry-Paraffin: 1:1000-1:5000~, Immunohistochemistry-Frozen: 1:1000-1:5000, Simple Western: 1:100, Immunocytochemistry/ Immunofluorescence: 1:200, Immunoprecipitation: 1:50-1:200, Western Blot: 1:1000-1:2000~
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A recombinant protein fragment corresponding to the C-terminal 196 amino acids of human BAG-3. Bag-3; full length-gel=GST-RP; human
Formulation:	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Whole antisera
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	BCL2 associated athanogene 3
Database Link:	NP_004272 Entrez Gene 29810 Mouse Entrez Gene 9531 Human O95817



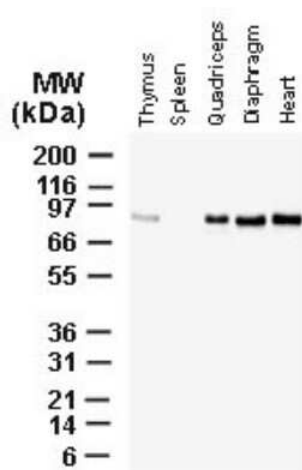
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Background:	<p>The BAG proteins are a family of chaperone regulators that modulate a number of diverse processes including proliferation, survival, stress responses, tumorigenesis, neuronal differentiation, growth arrest and apoptosis (reviewed Takayama and Reed, 2001; Doong et al, 2002, and Doukhanina et al. 2006). BAG proteins have been characterized as co-chaperones and interact with the chaperone heat shock proteins 70, both constitutive Hsc70 and inducible Hsp70. BAG proteins bind through their BAG domain to the ATPase domain of Hsc70/Hsp70, and can modulate either positively or negatively the functions of the Hsc70/Hsp70 chaperone proteins. The BAG domain has been shown to contribute to the anti-apoptotic activity of BAG- family proteins. The anti-apoptotic activities of BAG-family proteins may be dependent on their interactions with Hsc70/Asp70 and/or binding to Bcl-2. In addition to the conserved BAG domain, BAG-family proteins also contain additional domains which enable them to interact with specific target proteins or to target them to specific locations within cells. The BAG family contains at least six family members, including BAG-1 and its various isoforms [including BAG-1S , BAG-1M (RAP46/HAP46), and BAG-1L, BAG2, BAG3 (CAIR-1; Bis.), BAG4 (SODD), BAG5 and BAG6 (Scythe, BAT3). The following amino acids (aa) lengths and molecular weights (kDa) have been described for human BAG proteins (reviewed in Takayama et al, 2001 and Doong et al, 2002): BAG-1 (230 aa., 34 kDa), BAG-1S (219 aa, 29 kDa), BAG-1M (274 aa, 46 kDa), BAG-1L (345 aa, 52 kDa), BAG-2 [212 aa; 24 kDa (Arndt et al. 2005)], BAG-3 (575 aa, 74 kDa), BAG-4 (456 aa; 60 kDa), BAG-5 ([442 aa; 51 kDa (kalia et al. 2004)], and BAG-6 (1129 aa; 150 kDa). IMG-5668 recognizes both BAG-3; BAG-3 migrates at ~74-80 kDa on SDS-PAGE.</p>
Synonyms:	BAG-3; BIS; CAIR-1; MFM6
Note:	<p>1. Increased BAG-3 expression has been described in pancreatic cancer compared to normal pancreas, Detectible BAG-3 expression has also been described inserveral pancreatic cancer cell lines. Please see Liao et al (2001) for details.2. In normal organs, BAG-3 protein has been found to be abundantly expressed in muscle. Please see Homma et al for details.</p>
Protein Families:	Druggable Genome

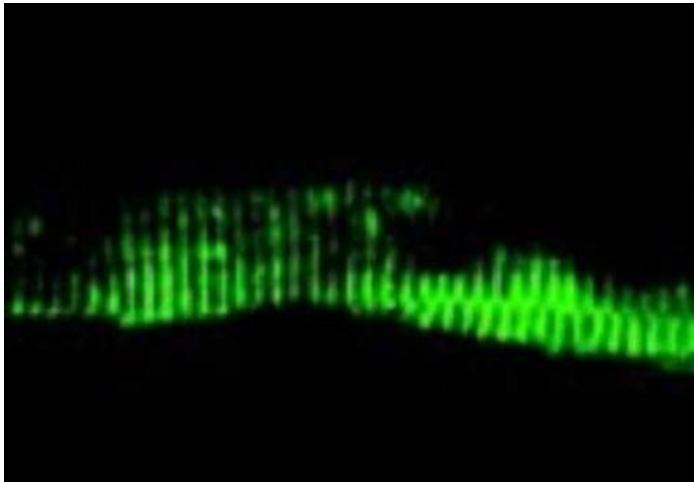
Product images:



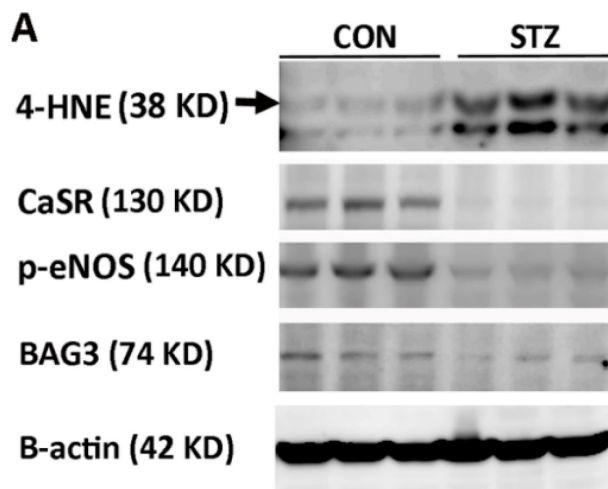
Simple Western: BAG3 Antibody TA337170 - Simple Western lane view shows a specific band for BAG3 in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



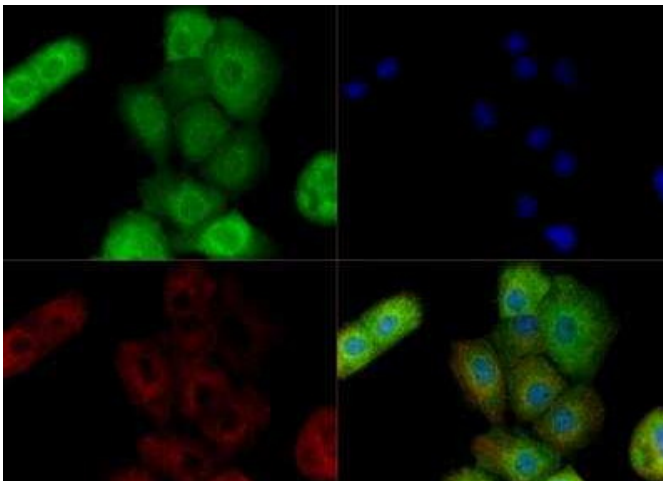
Western Blot: BAG3 Antibody TA337170 - Analysis of BAG3 using TA337170 at 1:2000. Tissue lysates, normalized for total protein (20 ug/lane), were from a 4 week old male mouse. BAG-3 expression was detected at highest levels in skeletal (quadriceps and diaphragm) and smooth (heart) muscle specimens.



Immunohistochemistry-Frozen: BAG3 Antibody TA337170 - Frozen mouse muscle tissue section stained for BAG-3 expression using TA337170 at 1:2000. The tissue section was fixed in 3.8% paraformaldehyde prior to staining. BAG-3 localizes with Z-disk proteins.



Mesenteric vascular Western blot graph (A) and analysis of 4-HNE (B), CaSR (C), p-eNOS (D) and BAG3 (E) are demonstrated. Microvascular reactivity from mesenteric arterioles to a vasoconstrictor (norepinephrine, NE, F) and vasodilator (acetylcholine, Ach, G) is displayed in CON and STZ groups. All data are presented as the mean \pm SEM (n = 3) using the single values in each test. * p < 0.05 vs. CON group.



Immunocytochemistry/Immunofluorescence: BAG3 Antibody TA337170 - Antibody was tested in A431 cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).