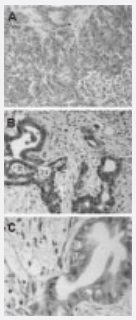
BAG3 polyclonal antibody

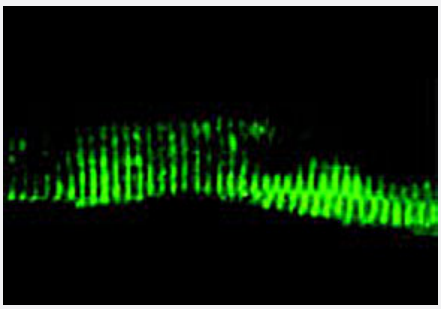
Catalog # PAB0330 Size 50 uL

Applications



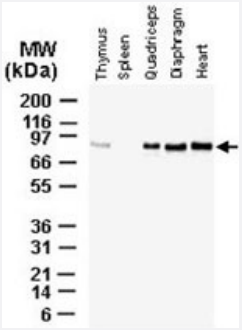
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of formalin-fixed paraffin-embedded human pancreas tissue sections. Using BAG3 polyclonal antibody (Cat # PAB0330) at 1 : 2000. A, normal pancreas. B and C, pancreatic cancer. Hematoxylin-eosin counterstain.



Immunohistochemistry (Frozen sections)

Frozen mouse muscle tissue section stained for BAG3 expression using BAG3 polyclonal antibody (Cat # PAB0330) at 1 : 2000. The tissue section was fixed in 3.8% paraformaldehyde prior to staining. BAG3 localizes with Z-disk proteins.



Western Blot (Tissue lysate)

Western blot analysis of BAG3. Using BAG3 polyclonal antibody (Cat # PAB0330) at 1 : 2000. Tissue lysates, normalized for total protein (20 ug/lane) , were from a 4 week old male mouse. BAG3 expression was detected at highest levels in skeletal (quadriceps and diaphragm) and smooth (heart) muscle specimens.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant BAG3.
Immunogen	Recombinant protein corresponding to C-terminus 196 amino acids of human BAG3.

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Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In serum (0.05% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunoprecipitation

- Western Blot (Tissue lysate)

  Western blot analysis of BAG3. Using BAG3 polyclonal antibody (Cat # PAB0330) at 1 : 2000. Tissue lysates, normalized for total protein (20 ug/lane) , were from a 4 week old male mouse. BAG3 expression was detected at highest levels in skeletal (quadriceps and diaphragm) and smooth (heart) muscle specimens.

Gene Info — BAG3

Entrez GeneID	9531
Gene Name	BAG3
Gene Alias	BAG-3, BIS, CAIR-1, MGC104307
Gene Description	BCL2-associated athanogene 3
Omim ID	603883

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Gene Ontology	Hyperlink
Gene Summary	BAG proteins compete with Hip for binding to the Hsc70/Hsp70 ATPase domain and promote su bstrate release. All the BAG proteins have an approximately 45-amino acid BAG domain near the C terminus but differ markedly in their N-terminal regions. The protein encoded by this gene conta ins a WW domain in the N-terminal region and a BAG domain in the C-terminal region. 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 i nhibit its chaperone activity in a Hip-repressible manner. [provided by RefSeq
Other Designations	BAG-family molecular chaperone regulator-3|BCL2-binding athanogene 3|Bcl-2-binding protein|O TTHUMP00000020599|docking protein CAIR-1

Publication Reference

- BAG3 regulates cilia homeostasis of glioblastoma via its WW domain.

  Caterina Roth, Lara Paulini, Marina E Hoffmann, Thorsten Mosler, Ivan Dikic, Andreas Brunschweiger, Hagen Korschgen, Christian Behl, Benedikt Linder, Donat Kogel

  Biofactors 2024 Apr; 50(6):1113-1133.

  Application: WB

- BAG3 is a negative regulator of ciliogenesis in glioblastoma and triple-negative breast cancer cells.

  Benedikt Linder, Caterina Klein, Marina E Hoffmann, Florian Bonn, Ivan Dikic, Donat Kögel.

  Journal of Cellular Biochemistry 2022 Jan; 123(1):77.

  Application: WB-Tr, Human, BT-549, U251, U343 cells

- BAG3 Overexpression and Cytoprotective Autophagy Mediate Apoptosis Resistance in Chemoresistant Breast Cancer Cells.

  Das CK, Linder B, Bonn F, Rothweiler F, Dikic I, Michaelis M, Cinatl J, Mandal M, Kogel D.

  Neoplasia 2018 Mar; 20:263.

  Application: WB, Human, BT-549, MDA-MB-468 cells

- Familial Dilated Cardiomyopathy Caused by a Novel Frameshift in the BAG3 Gene.

  Toro R, Perez-Serra A, Campuzano O, Moncayo-Arlandi J, Allegue C, Iglesias A, Mangas A, Brugada R.

  PLoS One 2016 Jul; 11(7):e0158730.

  Application: WB-Ti, Human, Heart

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- Diagnostic and clinical relevance of the autophago-lysosomal network in human gliomas.

  Lukas Jennewein, Michael W Ronellenfitsch, Patrick Antonietti, Elena I Ilina, Jennifer Jung, Daniela Stadel, Lisa-Marie Flohr, Jenny Zinke, Janusz von Renesse, Ulrich Drott, Peter Baumgarten, Anne K Braczynski, Cornelia Penski, Michael C Burger, Jean-Philippe Theurillat, Joachim P Steinbach, Karl-Heinz Plate, Ivan Dikic, Simone Fulda, Christian Brandts, Donat Kogel, Christian Behrends, Patrick N Harter, Michel Mittelbronn

  Oncotarget 2016 Apr; 7(15):20016-32.

  Application: WB

- Modulation of BAG3 Expression and Proteasomal Activity by sAPPα Does Not Require Membrane-Tethered Holo-APP.

  Kundu A, Milosch N, Antonietti P, Baumkotter F, Zymny A, Muller UC, Kins S, Hajieva P, Behl C, Kogel D.

  Molecular Neurobiology 2016 Nov; 53(9):5985.

  Application: WB, Human, SH-SY5Y cells

- The anti-apoptotic protein BAG-3 is overexpressed in pancreatic cancer and induced by heat stress in pancreatic cancer cell lines.

  Liao Q, Ozawa F, Friess H, Zimmermann A, Takayama S, Reed JC, Kleeff J, Buchler MW.

  FEBS Letters 2001 Aug; 503(2-3):151.

Disease

- Alzheimer Disease
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Kidney Failure
- Neoplasm Recurrence
- Neoplasms
- Psychiatric Status Rating Scales
- Schizophrenia

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