Product Datasheet

BAG3 Antibody - BSA Free
NBP2-27398

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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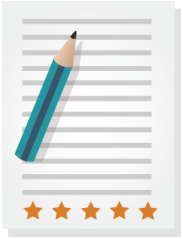
Updated 9/9/2025 v.20.1



NBP2-27398

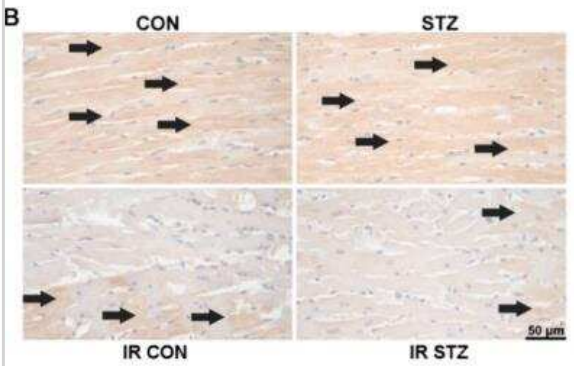
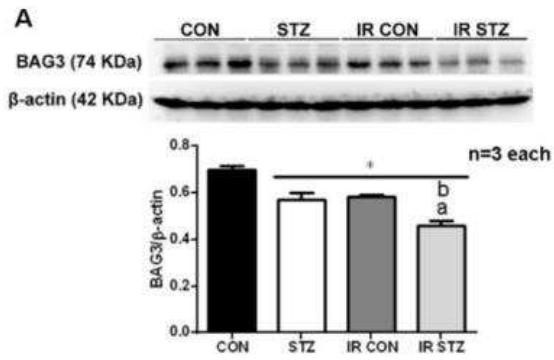
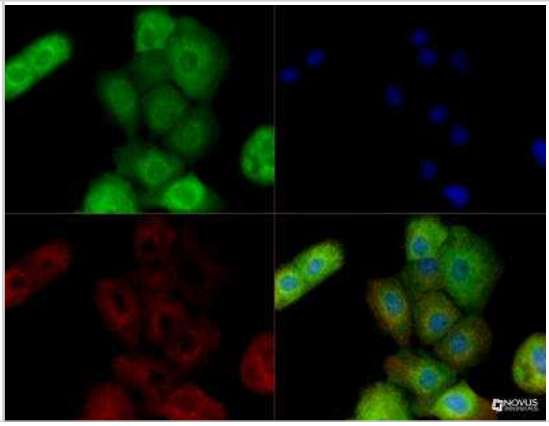
BAG3 Antibody - BSA Free

Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera

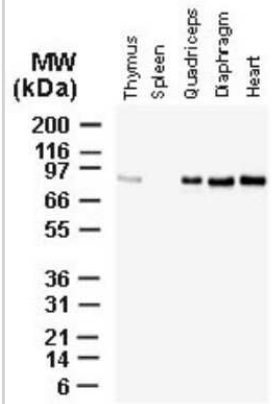
Product Description	
Description	Novus Biologicals Rabbit BAG3 Antibody - BSA Free (NBP2-27398) is a polyclonal antibody validated for use in IHC, WB, ICC/IF, Simple Western and IP. Anti-BAG3 Antibody: Cited in 15 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	9531
Gene Symbol	BAG3
Species	Human, Mouse, Rat
Reactivity Notes	Use in Rat reported in scientific literature (PMID:32132902).
Immunogen	A recombinant protein fragment corresponding to the C-terminal 196 amino acids of human BAG-3. Bag-3

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:2000~, Simple Western 1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:200, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000~, Immunohistochemistry-Frozen 1:1000-1:5000
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:100, apparent MW was 106 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

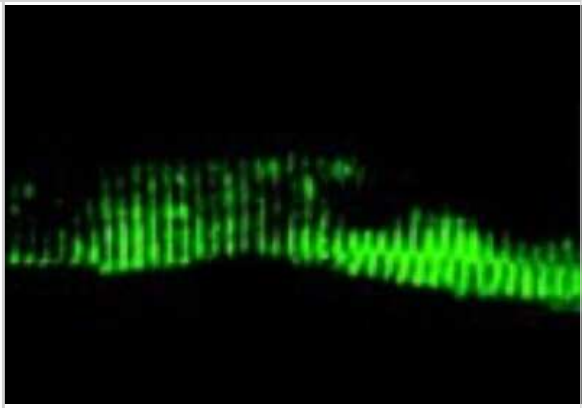
Images

Simple Western: BAG3 Antibody [NBP2-27398] - 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.	
Immunohistochemistry: BAG3 Antibody [NBP2-27398] - IHC of BAG3 in IR myocardium. BAG3 expression is significantly decreased in the STZ group than those in the CON group. BAG3 expression is also significantly reduced in the IR CON and IR STZ groups as compared with the CON group. IR STZ hearts further depress BAG3 expression than IR CON hearts. Data are expressed as mean +/- SEM (n = 3) using the single values. * p < 0.05 vs. CON, a p < 0.05 vs. STZ, b p < 0.05 vs. IR CON. Image collected and cropped by CiteAb from the following publication (https://www.mdpi.com/2076-3921/9/8/679) licensed under a CC-BY license.	
Western Blot: BAG3 Antibody [NBP2-27398] - Western blot of BAG3 in IR myocardium. BAG3 expression is significantly decreased in the STZ group than those in the CON group. BAG3 expression is also significantly reduced in the IR CON and IR STZ groups as compared with the CON group. IR STZ hearts further depress BAG3 expression than IR CON hearts. Data are expressed as mean +/- SEM (n = 3) using the single values. * p < 0.05 vs. CON, a p < 0.05 vs. STZ, b p < 0.05 vs. IR CON. Image collected and cropped by CiteAb from the following publication (https://www.mdpi.com/2076-3921/9/8/679) licensed under a CC-BY license.	
Immunocytochemistry/Immunofluorescence: BAG3 Antibody [NBP2-27398] - Antibody was tested in A431 cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).	

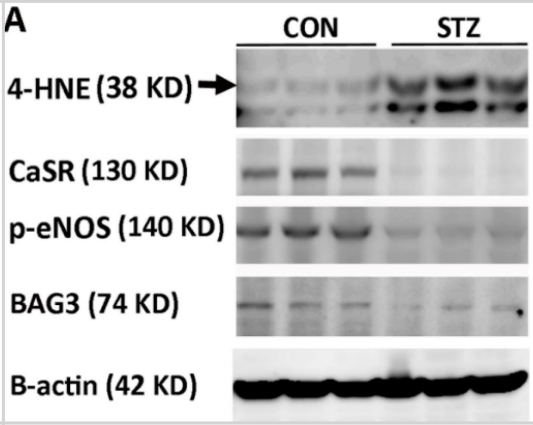
Western Blot: BAG3 Antibody [NBP2-27398] - Analysis of BAG3 using NBP2-27398 at 1:2000. Tissue lysates, normalized for total protein (20 ug/lane), were from a 4 week old male mouse. BAG-3 expression was detected at highest levels in skeletal (quadriceps and diaphragm) and smooth (heart) muscle specimens.



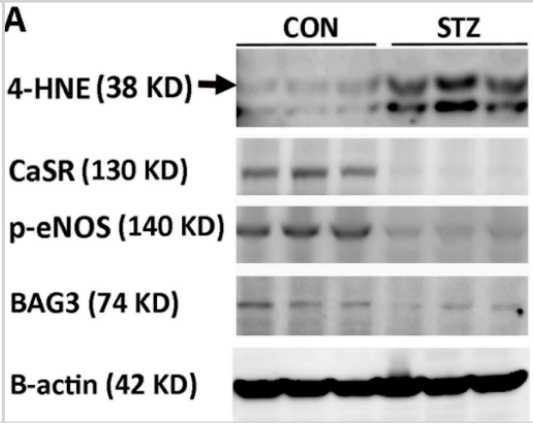
Immunohistochemistry-Frozen: BAG3 Antibody [NBP2-27398] - Frozen mouse muscle tissue section stained for BAG-3 expression using NBP2-27398 at 1:2000. The tissue section was fixed in 3.8% paraformaldehyde prior to staining. BAG-3 localizes with Z-disk proteins.



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 ± SEM (n = 3) using the single values in each test. * p < 0.05 vs. CON group.



Western Blot: BAG3 Antibody [NBP2-27398] - Mesenteric vascular Western blot graph (A) & analysis of 4-HNE (B), CaSR (C), p-eNOS (D) & BAG3 (E) are demonstrated. Microvascular reactivity from mesenteric arterioles to a vasoconstrictor (norepinephrine, NE, F) & vasodilator (acetylcholine, Ach, G) is displayed in CON & STZ groups. All data are presented as the mean ± SEM (n = 3) using the single values in each test. * p < 0.05 vs. CON group. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32751309), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Lu S, Hu J, Arogundade OA et al. Heat-shock chaperone HSPB1 regulates cytoplasmic TDP-43 phase separation and liquid-to-gel transition Nature Cell Biology 2022-09-08 [PMID: 36075972] (Western Blot, Immunohistochemistry-Paraffin, Human)

Abdel-Nour M, Ramaglia V, Bianchi AA, Tsalikis J The eIF2 alpha kinase HRI triggers the autophagic clearance of cytosolic protein aggregates 33168630 2020-01-01 [PMID: 33168630] (Western Blot, Immunohistochemistry-Paraffin, Human)

Krause, GJ;Kirchner, P;Stiller, B;Morozova, K;Diaz, A;Chen, KH;Krogan, NJ;Agullo-Pascual, E;Clement, CC;Lindenau, K;Swaney, DL;Dilipkumar, S;Bravo-Cordero, JJ;Santambrogio, L;Cuervo, AM; Molecular determinants of the crosstalk between endosomal microautophagy and chaperone-mediated autophagy Cell reports 2023-12-05 [PMID: 38060380]

Damiani V, Lamolinara A, Cicalini I et al. Pancreatic beta-cell specific BAG3 knockout results in chronic hyperinsulinemia inducing insulin resistance Molecular metabolism 2023-06-10 [PMID: 37308077] (ICC/IF, Mouse)

Damiani V, Cufaro MC, Fucito M et al. Proteomics Approach Highlights Early Changes in Human Fibroblasts-Pancreatic Ductal Adenocarcinoma Cells Crosstalk Cells 2022-03-29 [PMID: 35406724] (WB, Human)

Mukherjee, T, Ramaglia, V Et al. The eIF2 alpha kinase HRI triggers the autophagic clearance of cytosolic protein aggregates. J Biol Chem 2020-12-02 [PMID: 33410405] (WB, Mouse)

Li X, Lin G, Liu T Et al. Postnatal development of BAG3 expression in mouse cerebral cortex and hippocampus Brain structure & function 2021-08-06 [PMID: 34357438]

Yapa Abeywardana M, Samarasinghe KTG, Munkanatta Godage D, Ahn YH Identification and Quantification of Glutathionylated Cysteines under Ischemic Stress Journal of proteome research 2021-08-12 [PMID: 34382403]

Chien CY, Wen TJ, Cheng YH et al. Diabetes Upregulates Oxidative Stress and Downregulates Cardiac Protection to Exacerbate Myocardial Ischemia/Reperfusion Injury in Rats Antioxidants (Basel) 2020-07-29 [PMID: 32751309] (IHC-P, WB, Rat)

Ormeno F, Hormazabal J, Moreno J et Al. Chaperone Mediated Autophagy Degrades TDP-43 Protein and Is Affected by TDP-43 Aggregation Front Mol Neurosci 2020-02-18 [PMID: 32132902] (WB, Human, Rat)

Li X, Lu J, Kan Q et al. Metabolic reprogramming is associated with flavopiridol resistance in prostate cancer DU145 cells Sci Rep 2017-07-11 [PMID: 28698547] (WB, Human)

Liao Q, Ozawa F, Friess H et al. The anti-apoptotic protein BAG-3 is overexpressed in pancreatic cancer and induced by heat stress in pancreatic cancer cell lines. FEBS Lett. 2001-08-17 [PMID: 11513873] (IHC-P, WB, Human)

Details:
WB: human tissues and cell lines (Figs 1, 4-6); IHC (P): human pancreas tissue (Fig 2).

More publications at http://www.novusbio.com/NBP2-27398

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Products Related to NBP2-27398

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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