Product Datasheet

ATG9A Antibody - BSA Free NB110-56893

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 32

Protocols, Publications, Related Products, Reviews, Research Tools and Images at: www.novusbio.com/NB110-56893

Updated 10/23/2024 v.20.1

Earn rewards for product reviews and publications.

Submit a publication at www.novusbio.com/publications Submit a review at www.novusbio.com/reviews/destination/NB110-56893



NB110-56893

ATG9A Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	95 kDa
Product Description	
Host	Rabbit
Gene ID	79065
Gene Symbol	ATG9A
Species	Human, Mouse, Rat, Alligator, Bovine, Chicken, Drosophila, Primate
Reactivity Notes	Drosophila reactivity reported in scientific literature (PMID: 26353861). Use in Alligator reported in scientific literature (PMID:32061056).
Immunogen	A synthetic peptide made to a region within the C-terminus of human ATG9A (between residues 750-839). [Swiss-Prot: Q7Z3C6].
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry- Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 2 ug/ml, Flow Cytometry, Immunohistochemistry 1:100-1:250, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 24705551), Immunoprecipitation reported in scientific literature (PMID 27316455), Immunohistochemistry-Paraffin 1:100-1:250, Immunohistochemistry- Frozen reported in scientific literature (PMID 31200728)
Application Notes	In Western blot, this antibody recognizes a band at ~95 kDa, representing ATG9A protein. Boiling samples prior to running the gel may affect the protein.

Images

Western Blot: ATG9A Antibody [NB110-56893] - Detection of ATG9A protein in HEK293 lysates using NB110-56893. (1) siRNA ATG9A knockdown and (2) wildtype ATG9A.



www.novusbio.com



Page 2 of 5 v.20.1 Updated 10/23/2024 Western Blot: ATG9A Antibody [NB110-56893] - After stimulation with AM MDM MN the NOD1 ligand, macrophages increased their expression of autophagy Atg9 proteins Atg9, LC3 and IRGM. Alveolar macrophages (AMs), monocyte-LC3-1 LC3-II derived macrophages (MDMs) and monocytes (MNs) were incubated in Tubulin the presence of 5 ug/ml of Tri-DAP for 24 h. Cells were pre-incubated Tri-DAP Th-DAP with Rip2/p38 inhibitor SB203580 (SB) for 30 min prior to Tri-DAP stimulation to block NOD1-mediated responses, as indicated. Atg9 and LC3 proteins were measured in the cytosolic fractions by western blot analysis. Image collected and cropped by CiteAb from the following publication (https://bmcpulmmed.biomedcentral.com/articles/10.1186/1471-2466-14-152), licensed under a CC-BY license. Immunocytochemistry/Immunofluorescence: ATG9A Antibody [NB110-56893] - Neuro2a cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-ATG9A at 2 ug/ml overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Copyright © 2018 Novus Biologicals Immunohistochemistry: ATG9A Antibody [NB110-56893] - Staining in mouse intestine.

Flow Cytometry: ATG9A Antibody [NB110-56893] - An intracellular stain was performed on Hela Cells with NB110-56893 and a matched isotype control. Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG APC-conjugated Secondary Antibody (R&D Systems, F0111).







Page 3 of 5 v.20.1 Updated 10/23/2024



Publications

A. Negrete-Hurtado, M. Overhoff, S. Bera, E. De Bruyckere, K. Schätzmüller, M. J. Kye, C. Qin, M. Lammers, V. Kondylis, I. Neundorf, N. L. Kononenko Autophagy lipidation machinery regulates axonal microtubule dynamics but is dispensable for survival of mammalian neurons Nature Communications 2020-03-24 [PMID: 32210230]

Sanjar Batirovich Madrakhimov, Jin Young Yang, Jin Ha Kim, Jung Woo Han, Tae Kwann Park mTOR-dependent dysregulation of autophagy contributes to the retinal ganglion cell loss in streptozotocin-induced diabetic retinopathy Cell Communication and Signaling : CCS 2021-02-26 [PMID: 33637094]

Nah J, Pyo JO, Jung S et al. BECN1/Beclin 1 is recruited into lipid rafts by prion to activate autophagy in response to amyloid beta 42. Autophagy 2013-12-01 [PMID: 24145555]

Haihua Guo, Manuel Rogg, Julia Keller, Ann-Kathrin Scherzinger, Julia Jäckel, Charlotte Meyer, Alena Sammarco, Martin Helmstädter, Oliver Gorka, Olaf Groß, Christoph Schell, Wibke Bechtel-Walz, Ana Cristina Simões E Silva ADP-Ribosylation Factor-Interacting Protein 2 Acts as a Novel Regulator of Mitophagy and Autophagy in Podocytes in Diabetic Nephropathy Antioxidants 2024-01-08 [PMID: 38247505]

Bi Y, Yang G, Guo Z et al. Chronic high?salt intake induces cardiomyocyte autophagic vacuolization during left ventricular maladaptive remodeling in spontaneously hypertensive rats Experimental and Therapeutic Medicine 2023-02-16 [PMID: 36911373]

Jeong S, Kim Y, Park S et al. Lactobacillus plantarum Metabolites Elicit Anticancer Effects by Inhibiting Autophagy-Related Responses Molecules (Basel, Switzerland) 2023-02-16 [PMID: 36838877] (WB, Human)

Izumi H, Li Y, Yasunami M et al. Asymmetric Pericentrosomal CD133 Endosomes Induce the Unequal Autophagic Activity During Cytokinesis in CD133-Positive Human Neuroblastoma Cells Stem cells (Dayton, Ohio) 2022-03-14 [PMID: 35284915]

Kim Y, Lee Y, Heo G et al. Modulation of Intestinal Epithelial Permeability via Protease-Activated Receptor-2-Induced Autophagy Cells 2022-03-03 [PMID: 35269499] (WB, Human)

Wang R, Miao G, Shen JL et al. ESCRT dysfunction compromises endoplasmic reticulum maturation and autophagosome biogenesis in Drosophila Current biology : CB 2022-02-01 [PMID: 35134326]

Trelford, C B & Di Guglielmo, G M. Assessing methods to quantitatively validate TGF beta -dependent autophagy. Biol Open 2020-11-23 [PMID: 33168592] (WB, Mouse)

Yu YS, Shin HR, Kim D et al. Pontin arginine methylation by CARM1 is crucial for epigenetic regulation of autophagy Nature communications 2020-12-08 [PMID: 33293536]

Gu Q, Jiao S, Duan K et al. The BAD-BAX-caspase-3 cascade modulates synaptic vesicle pools via autophagy The Journal of neuroscience : the official journal of the Society for Neuroscience 2020-12-10 [PMID: 33303681]

More publications at <u>http://www.novusbio.com/NB110-56893</u>





Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112 USA Phone: 303.730.1950 Toll Free: 1.888.506.6887 Fax: 303.730.1966 nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave Toronto, ON M8Z 4E6 Canada Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402 canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB, United Kingdom Phone: (44) (0) 1235 529449 Free Phone: 0800 37 34 15 Fax: (44) (0) 1235 533420 info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com Technical Support: nb-technical@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

Products Related to NB110-56893

NB110-56893PEP	ATG9A Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB110-56893

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications

www.novusbio.com

