

Product Datasheet

Endo G Antibody - BSA Free NBP1-76657

Unit Size: 0.1 mg

Store at 4C.

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NBP1-76657

Endo G Antibody - BSA Free

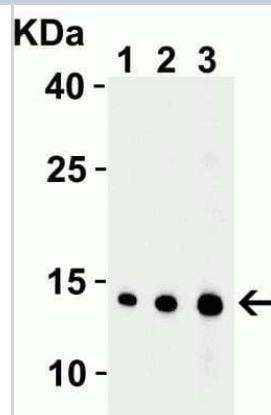
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	33 kDa

Product Description	
Host	Rabbit
Gene ID	2021
Gene Symbol	ENDOG
Species	Human, Mouse, Rat, Canine
Reactivity Notes	Canine reactivity reported in scientific literature (PMID: 25843897)
Immunogen	Antibody was raised with a synthetic peptide corresponding to 15 amino acids near the amino terminus of human EndoG. The immunogen is located within amino acids 40 - 90 of EndoG. Amino Acid Sequence: GGPRGPGELAKYGLP

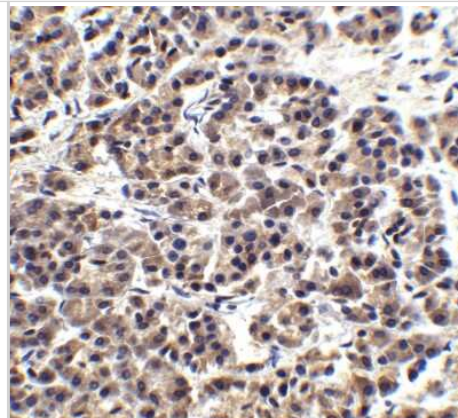
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.5-2 ug/mL, ELISA 1:100-1:2000, Immunohistochemistry 2.5-15 ug/mL, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin
Application Notes	Use in ICC/IF reported in scientific literature (PMID:33473107)

Images

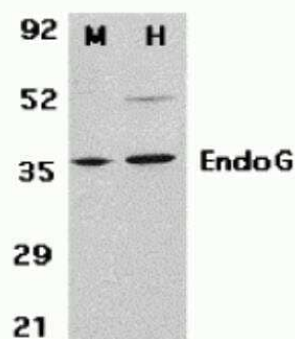
Western Blot: Endo G Antibody [NBP1-76657] - Western Blot Validation with Recombinant Protein. Loading: 30 ng of human Endo G recombinant protein per lane. Antibodies: Endo G NBP1-76657, 1h incubation at RT in 5% NFD/MTBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 0.5 ug/mL Lane 2: 1 ug/mL Lane 3: 2 ug/mL



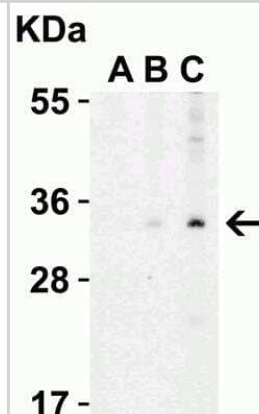
Immunohistochemistry: Endo G Antibody [NBP1-76657] - Analysis of human pancreas tissue with EndoG antibody at 2.5 ug/ml.



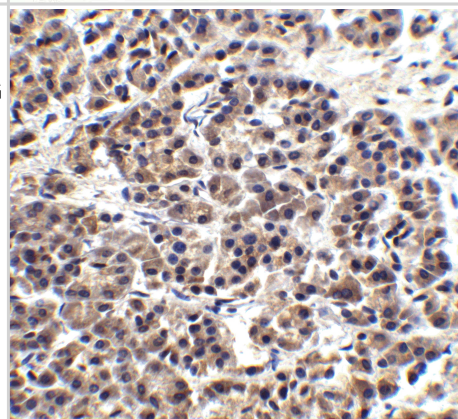
Western Blot: Endo G Antibody [NBP1-76657] - Western Blot Validation in Mouse 3T3 (M) and Human HepG2 (H) cell lysates. Loading: 15 ug of lysates per lane. Antibodies: Endo G NBP1-76657 (2 ug/ml), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



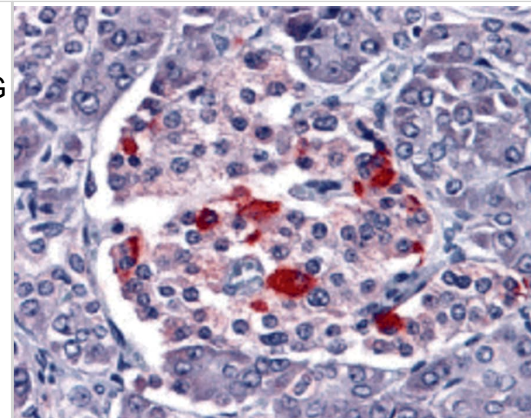
Western Blot: Endo G Antibody [NBP1-76657] - Western Blot Validation in Human A431 Cell Lysate with the presence (A) or absence (B and C) of blocking peptide. Loading: 15 ug of lysates per lane. Antibodies: Endo G NBP1-76657 (A: 0.5 ug/mL, B: 0.5 ug/mL, C: 1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



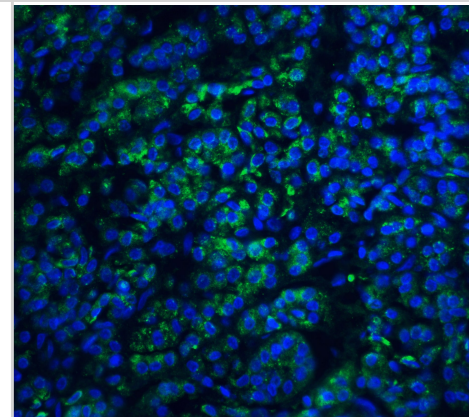
Immunohistochemistry: Endo G Antibody - BSA Free [NBP1-76657] - Validation of Endo G in Human Pancreas Tissue. Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-Endo G antibody at 2.5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



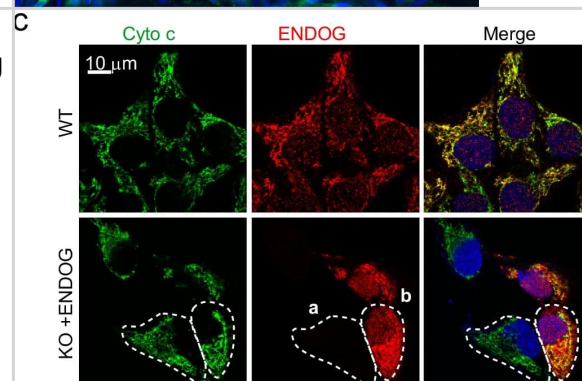
Immunohistochemistry: Endo G Antibody - BSA Free [NBP1-76657] - Validation of Endo G in Human Pancreas Tissue. Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-Endo G antibody at 15 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunocytochemistry/ Immunofluorescence: Endo G Antibody - BSA Free [NBP1-76657] - Validation of Endo G in Human Pancreas Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed human pancreas tissue labeling Endo G with at 20 u/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Knockout of ENDOG has little influence on mouse phenotype under normal conditions. a, b Body weight and liver histologic analysis in Endog +/- and Endog-/- mice under normal conditions in our lab. c Co-immunofluorescence staining of ENDOG and cytochrome c in the indicated cells (ENDOG knockout cells (KO) were transfected with wild-type ENDOG, mitochondria targeting sequence deleted ENDOG (Del 1-48), and replaced the mitochondria targeting sequence with nucleus localization sequence ENDOG (NLS-ENDOG) for 48 h; a, c, e are ENDOG knockout cells. b, d, f, are cells expressing ENDOG, Del 1-48, and NLS-ENDOG). Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41467-024-51448-w>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wang W, Zhou Q., et Al. Reply to: The effects of ENDOG on lipid metabolism may be tissue-dependent and may not require its translocation from mitochondria Nat Commun 2024-08-21 [PMID: 39168974]

Wang W, Tan J, Liu X et al. Cytoplasmic Endonuclease G promotes nonalcoholic fatty liver disease via mTORC2-AKT-ACLY and endoplasmic reticulum stress Nature communications 2023-10-04 [PMID: 37794041] (ICC/IF, Human)

Details:

Dilution 1:100

Wang W, Li J, Tan J, et al. Endonuclease G promotes autophagy by suppressing mTOR signaling and activating the DNA damage response Nature communications 2021-01-20 [PMID: 33473107] (ICC/IF, Human)

Chiu YS, Cheng YH, Lin SW et al. Bupivacaine induces apoptosis through caspase-dependent and -independent pathways in canine mammary tumor cells Res. Vet. Sci. 2015-03-25 [PMID: 25843897] (WB, Canine)

Details:

Endo G antibody was used at 1:1000 dilution in WB assay for analysis of lysates from canine breast cancer DTK-SME cell line treated or not with Bupivacaine (anesthetic for prolonged, local and regional anesthesia) for various time frames (0-48 hours; see protocol details in full text). Fig 3B shows the WB data and it is evident that Endo G is released from mitochondria of DTK-SME cells after 24 h of bupivacaine treatment.





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@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-76657

NBP1-76657PEP	Endo G 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.

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