

Product Datasheet

Endo G Antibody - BSA Free

NBP1-76657

Unit Size: 0.1 mg

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

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Updated 10/19/2023 v.20.1

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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 short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	33 kDa

Product Description

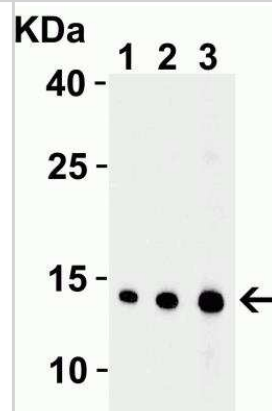
Host	Rabbit
Gene ID	2021
Gene Symbol	ENDOG
Species	Human, Mouse, Rat, Canine
Reactivity Notes	Canine reactivity reported in scientific literature (PMID: 25843897)
Immunogen	Antibody was raised with a synthetic peptide corresponding to 15 amino acids near the amino terminus of human EndoG. The immunogen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

Product Application Details

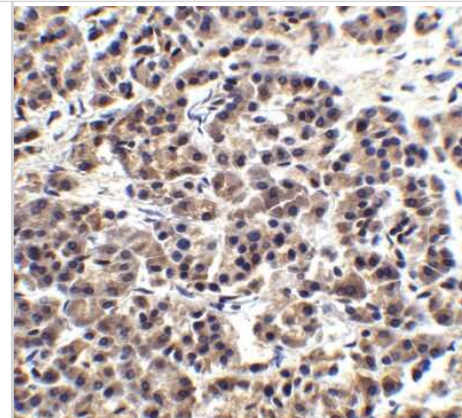
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunofluorescence
Recommended Dilutions	Western Blot 0.5-2 ug/mL, ELISA 1:100-1:2000, Immunohistochemistry 2.5-15 ug/mL, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin,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

Images

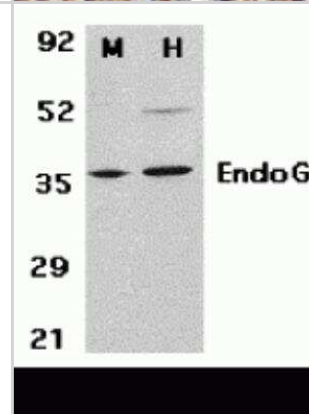
Western Blot: Endo G Antibody [NBP1-76657] - Western Blot Validation with Recombinant Protein. Loading: 30 ng of human Endo G recombinant protein per lane. Antibodies: Endo G NBP1-76657, 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 0.5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



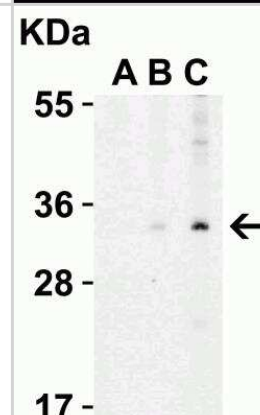
Immunohistochemistry: Endo G Antibody [NBP1-76657] - Analysis of human pancreas tissue with EndoG antibody at 2.5 ug/ml.



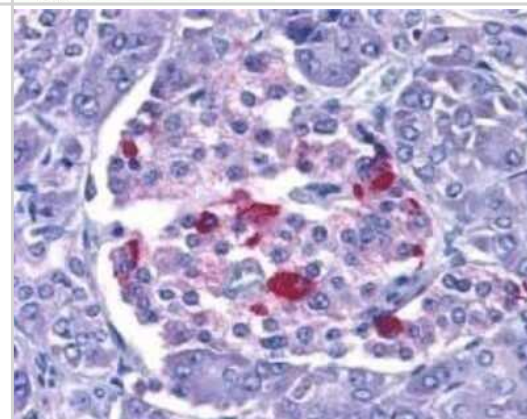
Western Blot: Endo G Antibody [NBP1-76657] - Western Blot Validation in Mouse 3T3 (M) and Human HepG2 (H) cell lysates. Loading: 15 ug of lysates per lane. Antibodies: Endo G NBP1-76657 (2 ug/ml), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



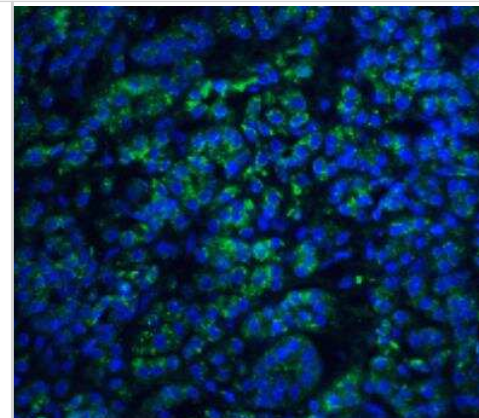
Western Blot: Endo G Antibody [NBP1-76657] - Western Blot Validation in Human A431 Cell Lysate with the presence (A) or absence (B and C) of blocking peptide. Loading: 15 ug of lysates per lane. Antibodies: Endo G NBP1-76657 (A: 0.5 ug/mL, B: 0.5 ug/mL, C: 1 ug/mL), 1h incubation at RT in 5% NFDM/TBST.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



Immunohistochemistry-Paraffin: Endo G Antibody [NBP1-76657] - Human pancreas with anti-Endo G at 15 ug/ml.



Immunofluorescence: Endo G Antibody [NBP1-76657] - Human pancreas tissue with EndoG antibody at 20 ug/mL. Green: EndoG Antibody Blue: DAPI staining



Publications

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.



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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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