

Product Datasheet

CBARA1 Antibody - BSA Free

NBP1-86663

Unit Size: 0.1 ml

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

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-86663

Updated 4/13/2025 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/NBP1-86663



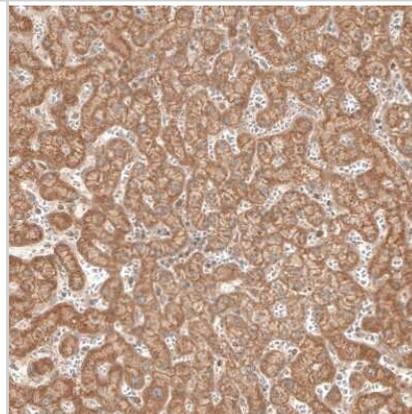
NBP1-86663

CBARA1 Antibody - BSA Free

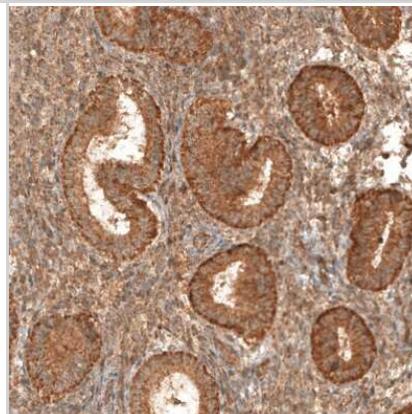
| Product Information | |
|--------------------------------|--|
| Unit Size | 0.1 ml |
| Concentration | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.02% Sodium Azide |
| Isotype | IgG |
| Purity | Immunogen affinity purified |
| Buffer | PBS (pH 7.2) and 40% Glycerol |
| Target Molecular Weight | 54 kDa |
| Product Description | |
| Host | Rabbit |
| Gene ID | 10367 |
| Gene Symbol | MICU1 |
| Species | Human, Mouse |
| Reactivity Notes | Use in Mouse reported in scientific literature (PMID:32075766). |
| Immunogen | This antibody was developed against Recombinant Protein corresponding to amino acids: LKGKLTIKNFLEFQRKLQHDVLKLEFERHDPVDGRITERQFGGMLLAYSGVQSK KLTAMQRQLKKHFKEGKGLTFQEVENFFTFL |
| Product Application Details | |
| Applications | Western Blot, Simple Western, Immunohistochemistry, Immunohistochemistry-Paraffin |
| Recommended Dilutions | Western Blot Reported in scientific literature (PMID 28292968), Simple Western 1:20, Immunohistochemistry 1:50 - 1:200, Immunohistochemistry-Paraffin 1:50 - 1:200 |
| Application Notes | For IHC-Paraffin, HIER pH 6 retrieval is recommended. 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 RT-4, U-251, separated by Size, antibody dilution of 1:20, apparent MW was 52 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. |

Images

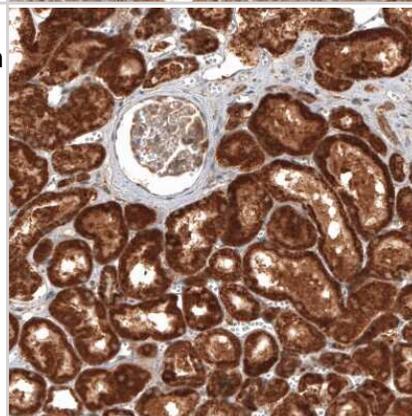
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human liver shows moderate granular positivity in cytoplasm in hepatocytes.



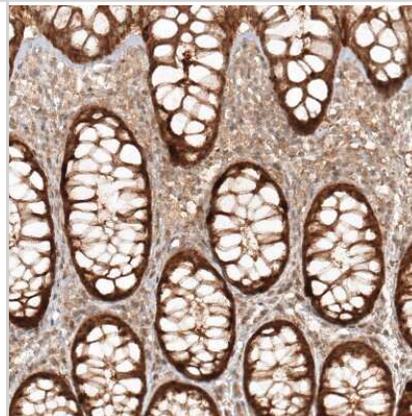
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human endometrium shows strong granular positivity in cytoplasm in glandular cells.



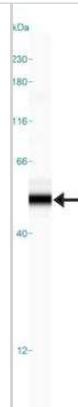
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human kidney shows strong granular positivity in cytoplasm in cells in tubules.



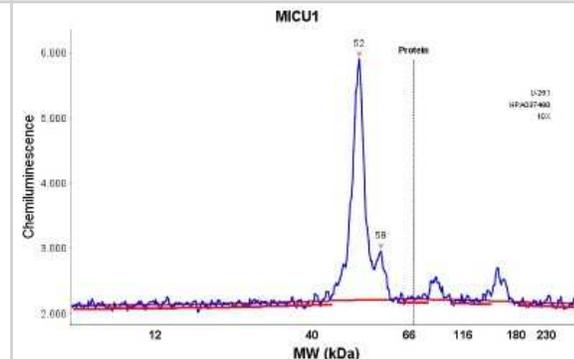
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human rectum shows strong granular positivity in cytoplasm in glandular cells.



Simple Western: CBARA1 Antibody [NBP1-86663] - Simple Western lane view shows a specific band for CBARA1 in 0.2 mg/ml of RT-4 (left), U-251 (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: CBARA1 Antibody [NBP1-86663] - Electropherogram image(s) of corresponding Simple Western lane view. CBARA1 antibody was used at 1:20 dilution on RT-4 and U-251 lysate(s).



Publications

Di Marco G, Vallese F, Jourde B et al. A High-Throughput Screening Identifies MICU1 Targeting Compounds Cell Rep 2020-02-18 [PMID: 32075766] (WB, Mouse)

Ji L, Liu F, Jing Z et al. MICU1 Alleviates Diabetic Cardiomyopathy Through Mitochondrial Ca(2+)-dependent Antioxidant Response. Diabetes. 2017-03-14 [PMID: 28292968] (WB, IHC-P)

Lee Y, Min CK, Kim TG et al. Structure and function of the N-terminal domain of the human mitochondrial calcium uniporter. EMBO Rep 2015-10-01 [PMID: 26341627] (WB, Human)

Stephanie S Lam, Jeffrey D Martell, Kimberli J Kamer et al. Directed evolution of APEX2 for electron microscopy and proximity labeling. Nature Methods 2014-11-24 [PMID: 25419960] (WB, Human)

Logan CV, Szabadkai G, Sharpe JA et al. Loss-of-function mutations in MICU1 cause a brain and muscle disorder linked to primary alterations in mitochondrial calcium signaling. Nat Genet 2014-02-01 [PMID: 24336167]

Wang W, Xie Q, Zhou X et al. Mitofusin-2 triggers mitochondria Ca(2+) influx from the endoplasmic reticulum to induce apoptosis in hepatocellular carcinoma cells. Cancer Lett. 2014-12-23 [PMID: 25541060] (WB, IHC-P, Human)

Details:

CBARA1 (MICU1) antibody used for immunohistochemistry on paraffin-embedded HCC and adjacent normal tissues to compare the expression of CBARA1 (MICU1). Immunohistochemistry analysis showing no significant difference between HCC and adjacent normal tissues. Additionally, western blot analysis showing low protein expression levels of MICU1 (Fig. 11).



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 NBP1-86663

| | |
|---------------|---|
| NBP1-86663PEP | CBARA1 Recombinant Protein Antigen |
| 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/NBP1-86663

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

