

# 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](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Reviews: 1 Publications: 6**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP1-86663](http://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](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP1-86663](http://www.novusbio.com/reviews/destination/NBP1-86663)



**NBP1-86663**

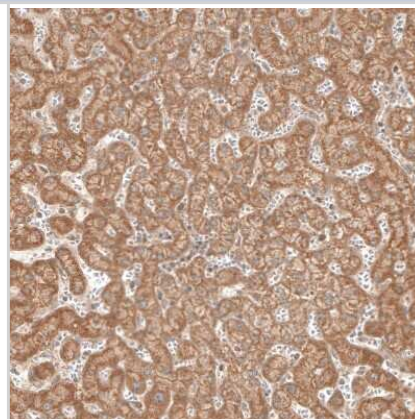
CBARA1 Antibody - BSA Free

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 KLTAMQRQLKKHFKEGKGLTFQEVENFFTL
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 <a href="#">Simple Western Antibody Database</a> 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.

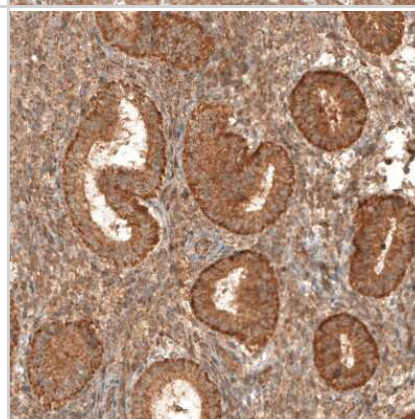


## Images

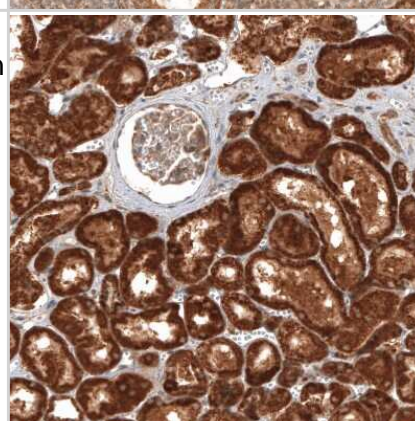
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human liver shows moderate granular positivity in cytoplasm in hepatocytes.



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



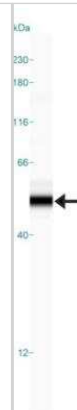
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human kidney shows strong granular positivity in cytoplasm in cells in tubules.



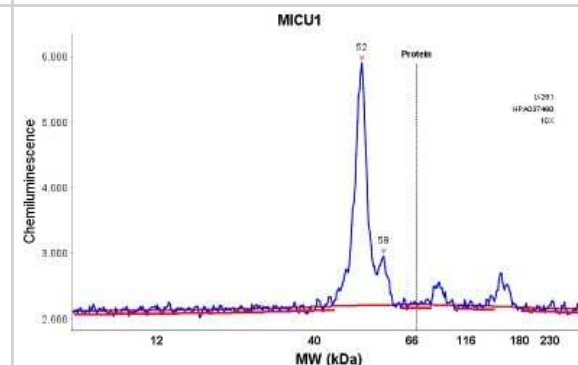
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human rectum shows strong granular positivity in cytoplasm in glandular cells.



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](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP1-86663](http://www.novusbio.com/reviews/submit/NBP1-86663)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

