

# 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 12/2/2025 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                  | Affinity purified  |
| Buffer                  | PBS (pH 7.2) and 40% Glycerol  |
| Target Molecular Weight | 54 kDa   |

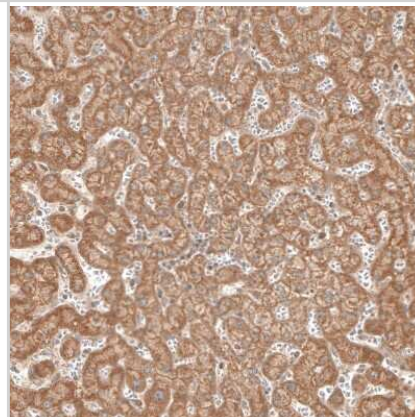
| Product Description |   |
|---------------------|---|
| Description         | Novus Biologicals Rabbit CBARA1 Antibody - BSA Free (NBP1-86663) is a polyclonal antibody validated for use in IHC, WB and Simple Western. Anti-CBARA1 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| 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:<br>LKGKLTIKNFLEFQRKLQHDVLKLEFERHDPVDGRITERQFGGMLLAYSGVQSK<br>KLTAMQRQLKKHFKEGKGLTFQEVENFFTL   |

| Product Application Details |  |
|-----------------------------|--|
| Applications                | Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry  |
| 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.<br><br>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.<br>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

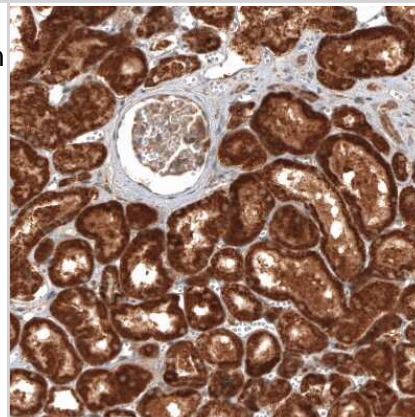
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human liver shows moderate granular positivity in cytoplasm in hepatocytes.



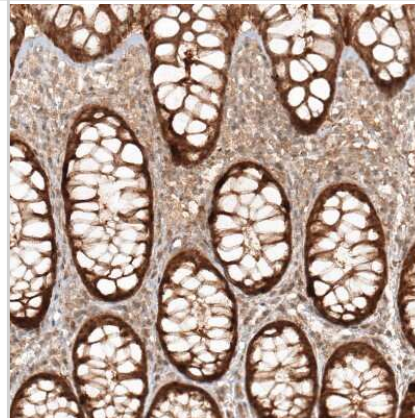
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human endometrium shows strong granular positivity in cytoplasm in glandular cells.



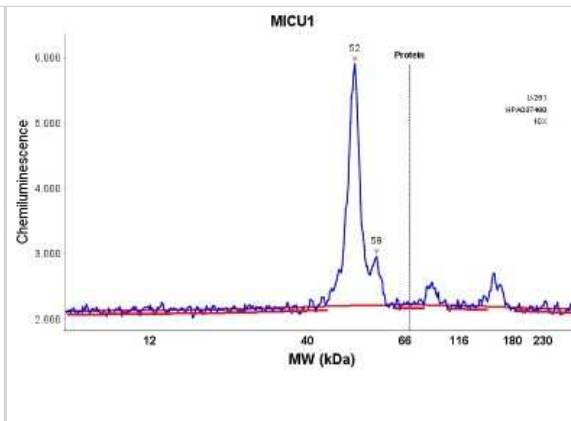
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human kidney shows strong granular positivity in cytoplasm in cells in tubules.



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] - 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                  |
| NBP2-33376H   | Blue Marker Antibody (6F4-F6) [HRP]                 |
| 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)

