

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.

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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

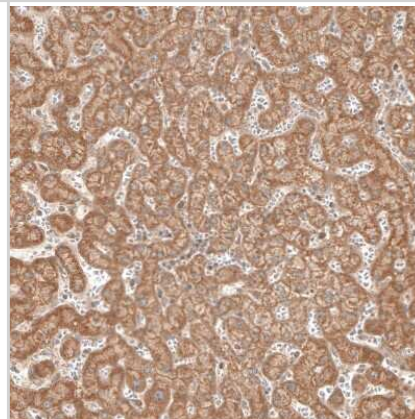
Product Description	
Description	Novus Biologicals Rabbit CBARA1 Antibody - BSA Free (NBP1-86663) is a polyclonal antibody validated for use in IHC, WB and Simple Western. Anti-CBARA1 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene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

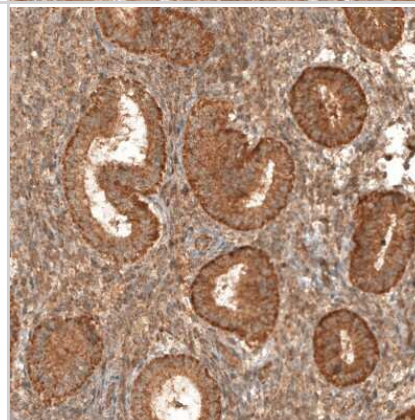


Images

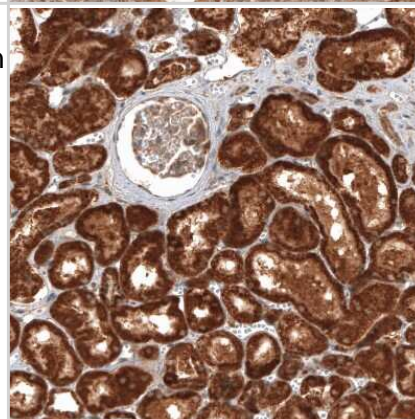
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human liver shows moderate granular positivity in cytoplasm in hepatocytes.



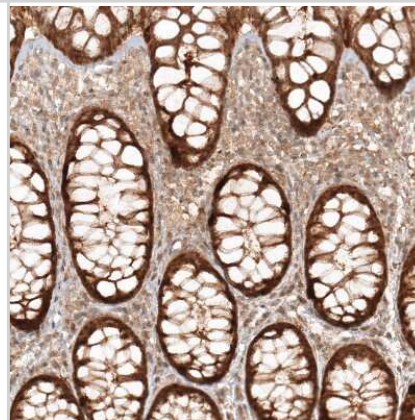
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human endometrium shows strong granular positivity in cytoplasm in glandular cells.



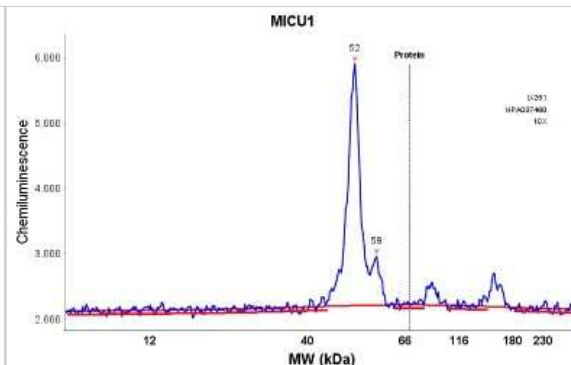
Immunohistochemistry-Paraffin: CBARA1 Antibody [NBP1-86663] - Staining of human kidney shows strong granular positivity in cytoplasm in cells in tubules.



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] - 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).



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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.

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