

# Product Datasheet

## OXCT1 Antibody - BSA Free

### NBP1-82462

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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#### Publications: 3

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**NBP1-82462**

OXCT1 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	56 kDa

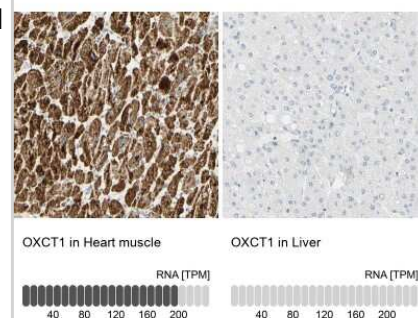
Product Description	
Description	Novus Biologicals Rabbit OXCT1 Antibody - BSA Free (NBP1-82462) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-OXCT1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5019
Gene Symbol	OXCT1
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: VGGFGLCGIPENLIDALLKTGVKGLTAVSNNAGVDNFGLGLLLRSKQIKRMVSS YVGNAEFERQYLSGELEVELTPQGTLAERIRAGGAGVPAFYTPTGYGTLVQE GGSPIKYNKDGSVAIASKPREVREFNGQHFILEEAITGDF

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

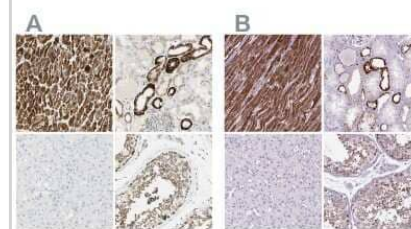


## Images

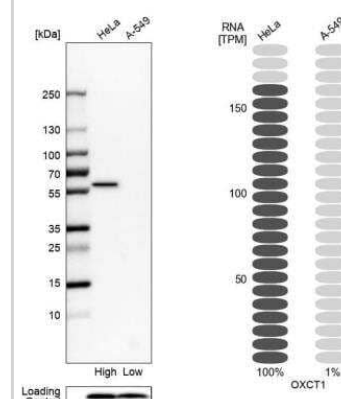
Immunohistochemistry-Paraffin: OXCT1 Antibody [NBP1-82462] - Analysis in human heart muscle and liver tissues. Corresponding OXCT1 RNA-seq data are presented for the same tissues.



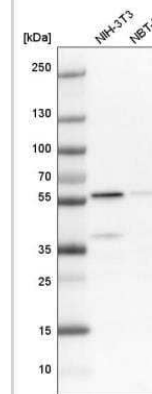
Immunohistochemistry-Paraffin: OXCT1 Antibody [NBP1-82462] - Staining of human heart muscle, kidney, liver and testis using Anti-OXCT1 antibody NBP1-82462 (A) shows similar protein distribution across tissues to independent antibody NBP2-49331 (B).



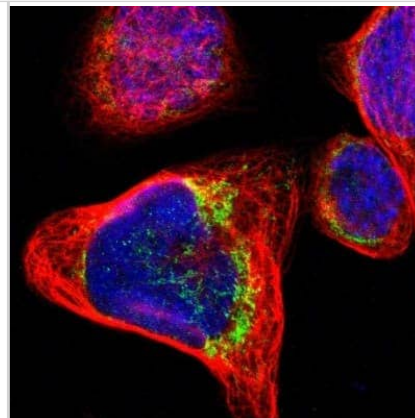
Western Blot: OXCT1 Antibody [NBP1-82462] - Analysis in human cell lines HeLa and A-549. Corresponding RNA-seq data are presented for the same cell lines. Loading control: Anti-COX4I1.



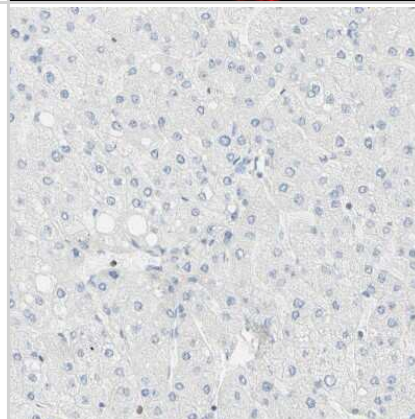
Western Blot: OXCT1 Antibody [NBP1-82462] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



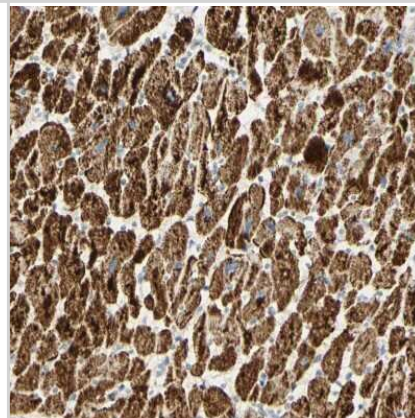
Immunocytochemistry/Immunofluorescence: OXCT1 Antibody [NBP1-82462] - Staining of human cell line A-431 shows localization to mitochondria. Antibody staining is shown in green.



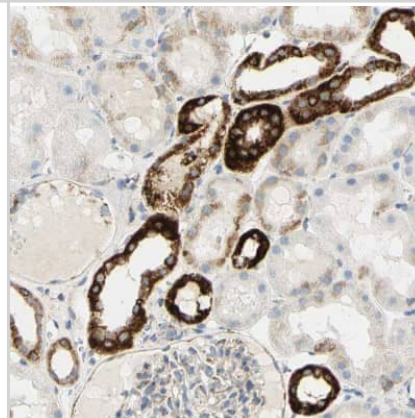
Immunohistochemistry-Paraffin: OXCT1 Antibody [NBP1-82462] - Staining of human liver shows no positivity in hepatocytes as expected.



Immunohistochemistry-Paraffin: OXCT1 Antibody [NBP1-82462] - Staining of human heart muscle shows strong cytoplasmic positivity in cardiomyocytes.



Immunohistochemistry-Paraffin: OXCT1 Antibody [NBP1-82462] - Staining of human kidney shows strong cytoplasmic positivity in cells in tubules.



## Publications

Gouirand V, Gicquel T, Lien EC et al. Ketogenic HMG-CoA lyase and its product beta-hydroxybutyrate promote pancreatic cancer progression The EMBO journal 2022-03-21 [PMID: 35307861] (WB, IF/IHC, Mouse)

Ding J, Li H, Liu Y Et al. OXCT1 Enhances Gemcitabine Resistance Through NF-kappaB Pathway in Pancreatic Ductal Adenocarcinoma Frontiers in oncology 2021-11-05 [PMID: 34804914]

Chang HT, Olson LK, Schwartz KA. Ketolytic and glycolytic enzymatic expression profiles in malignant gliomas: implication for ketogenic diet therapy. Nutr Metab (Lond) 2013-07-05 [PMID: 23829383]





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### **Products Related to NBP1-82462**

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NBP1-82462PEP	OXCT1 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

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### **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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