

# Product Datasheet

## ACAT1 Antibody - BSA Free

### NBP1-89284

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)



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Updated 3/4/2026 v.20.1

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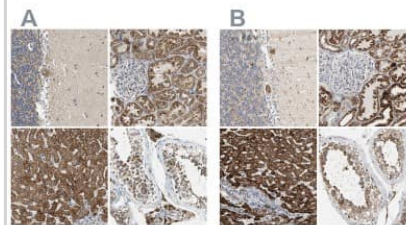
**NBP1-89284**

ACAT1 Antibody - BSA Free

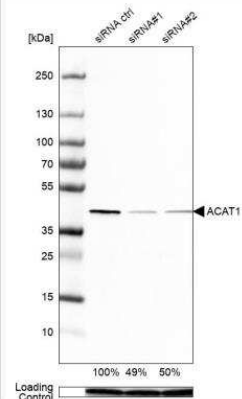
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol
Product Description	
<b>Host</b>	Rabbit
<b>Gene ID</b>	38
<b>Gene Symbol</b>	ACAT1
<b>Species</b>	Human, Porcine
<b>Reactivity Notes</b>	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (80%), Rat (81%). Reactivity reported in scientific literature (PMID: 22361696). Porcine reactivity reported from a verified customer review.
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: NEQDAYAINSYTRSKAAWEAGKFGNEVIPVTVTVKGQPDVVKEDEEYKRVDF SKVPKLTQVFQKENGTVTAANASTLNDGAAALVLMTADAAKRLNVTPLARIVAF ADAAVEPIDFPIAPVYAASMV
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500, Knockdown Validated
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization, Use PFA/Triton X-100.

## Images

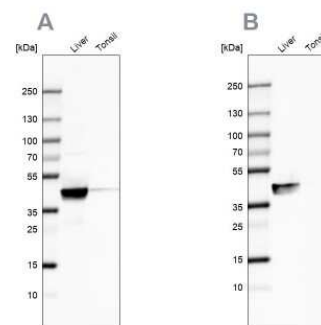
Immunohistochemistry-Paraffin: ACAT1 Antibody [NBP1-89284] - Staining of human cerebellum, kidney, liver and testis using Anti-ACAT1 antibody NBP1-89284 (A) shows similar protein distribution across tissues to independent antibody NBP1-89285 (B).



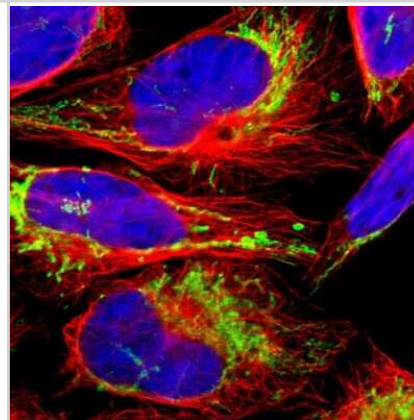
Western Blot: ACAT1 Antibody [NBP1-89284] - Analysis in Caco-2 cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-ACAT1 antibody. Remaining relative intensity is presented. Loading control: Anti-PPIB.



Western Blot: ACAT1 Antibody [NBP1-89284] - Analysis using Anti-ACAT1 antibody NBP1-89284 (A) shows similar pattern to independent antibody NBP1-89285 (B).



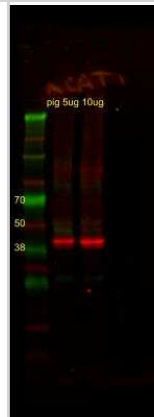
Immunocytochemistry/Immunofluorescence: ACAT1 Antibody [NBP1-89284] - Staining of human cell line U-2 OS shows localization to mitochondria. Antibody staining is shown in green.



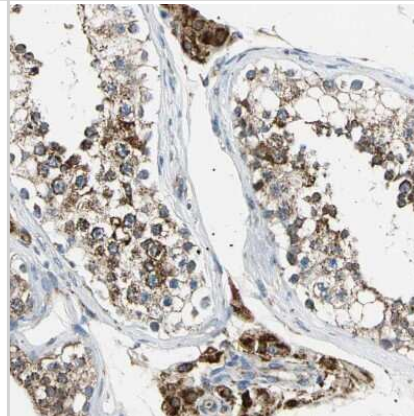
Immunohistochemistry-Paraffin: ACAT1 Antibody [NBP1-89284] - Staining of human cerebellum shows moderate positivity in mitochondria in Purkinje cells.



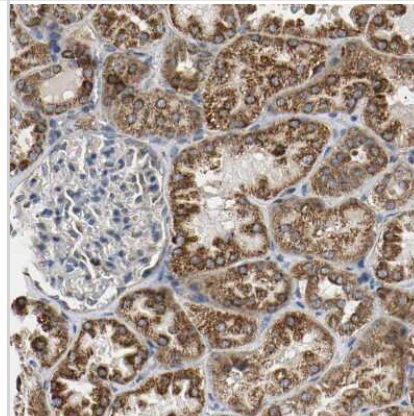
Western Blot: ACAT1 Antibody [NBP1-89284] - ACAT1 porcine cerebral cortex. Image from verified customer review.



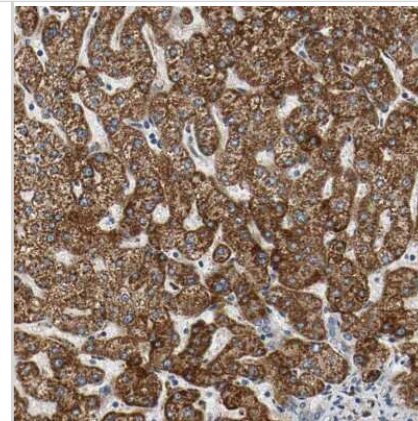
Immunohistochemistry-Paraffin: ACAT1 Antibody [NBP1-89284] - Staining of human testis shows strong positivity in mitochondria in cells in seminiferous ducts.



Immunohistochemistry-Paraffin: ACAT1 Antibody [NBP1-89284] - Staining of human kidney shows strong positivity in mitochondria in cells in tubules.



Immunohistochemistry-Paraffin: ACAT1 Antibody [NBP1-89284] - Staining of human liver shows strong positivity in mitochondria in hepatocytes.



## Publications

Andersson S, Konrad A, Ashok N et al. Antibodies Biotinylated Using a Synthetic Z-domain from Protein A Provide Stringent In Situ Protein Detection. *J Histochem Cytochem* 2013-11-01 [PMID: 23920108]

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]

Martinez-Outschoorn UE, Lin Z, Whitaker-Menezes D et al. Ketone body utilization drives tumor growth and metastasis. *Cell Cycle* 2012-11-01 [PMID: 23082722]

Martinez-Outschoorn UE, Lin Z, Whitaker-Menezes D et al. Ketone bodies and two-compartment tumor metabolism: Stromal ketone production fuels mitochondrial biogenesis in epithelial cancer cells. *Cell Cycle* 2012-11-01 [PMID: 23082721]

Stadler C, Hjelmare M, Neumann B et al. Systematic validation of antibody binding and protein subcellular localization using siRNA and confocal microscopy. *J Proteomics* 2012-04-03 [PMID: 22361696]



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General: novus@novusbio.com

### **Products Related to NBP1-89284**

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NBP1-89284PEP	ACAT1 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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