

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.

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NBP1-89284

ACAT1 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

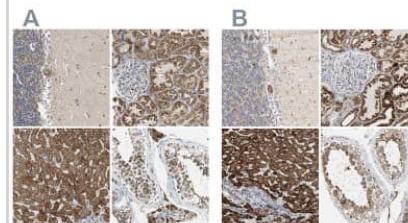
Product Description	
Host	Rabbit
Gene ID	38
Gene Symbol	ACAT1
Species	Human, Porcine
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (80%), Rat (81%). Reactivity reported in scientific literature (PMID: 22361696). Porcine reactivity reported from a verified customer review.
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: NEQDAYAINSYTRSKAAWEAGKFGNEVIPVTVTVKGQPDVVKEDEEYKRVD SKVPKLKTVFQKENGTVTAANASTLNDGAAALVLMTADAAKRLNVTPLARIVAF ADAAVEPIDFPIAPVYAASMV

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	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
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization, Use PFA/Triton X-100.

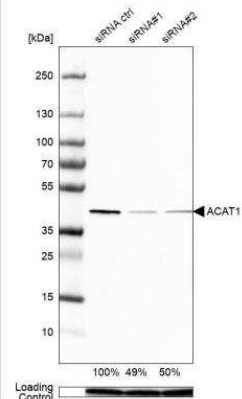


Images

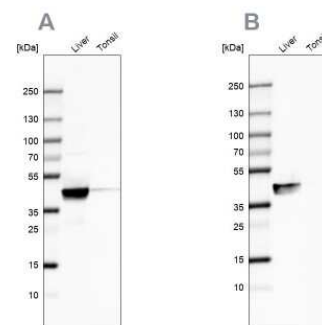
Immunohistochemistry-Paraffin: ACAT1 Antibody [NBP1-89284] - Staining of human cerebellum, kidney, liver and testis using Anti-ACAT1 antibody NBP1-89284 (A) shows similar protein distribution across tissues to independent antibody NBP1-89285 (B).



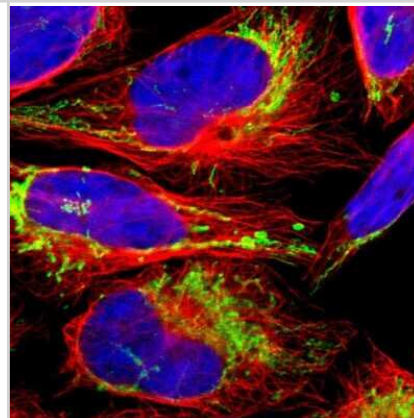
Western Blot: ACAT1 Antibody [NBP1-89284] - Analysis in Caco-2 cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-ACAT1 antibody. Remaining relative intensity is presented. Loading control: Anti-PPIB.



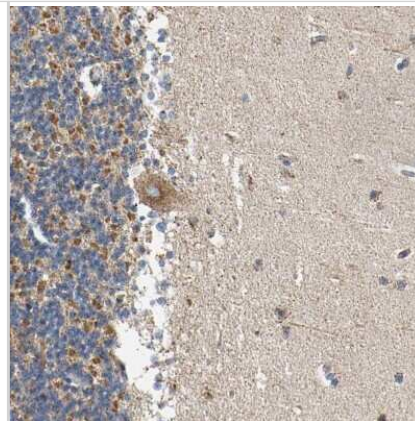
Western Blot: ACAT1 Antibody [NBP1-89284] - Analysis using Anti-ACAT1 antibody NBP1-89284 (A) shows similar pattern to independent antibody NBP1-89285 (B).



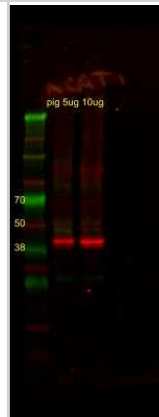
Immunocytochemistry/Immunofluorescence: ACAT1 Antibody [NBP1-89284] - Staining of human cell line U-2 OS shows localization to mitochondria. Antibody staining is shown in green.



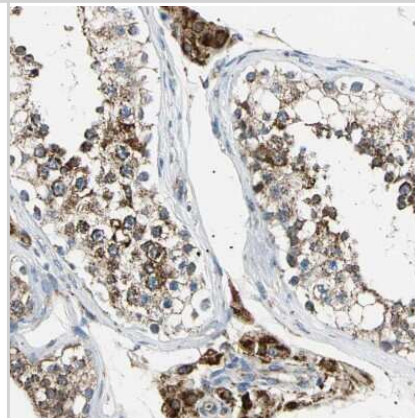
Immunohistochemistry-Paraffin: ACAT1 Antibody [NBP1-89284] - Staining of human cerebellum shows moderate positivity in mitochondria in Purkinje cells.



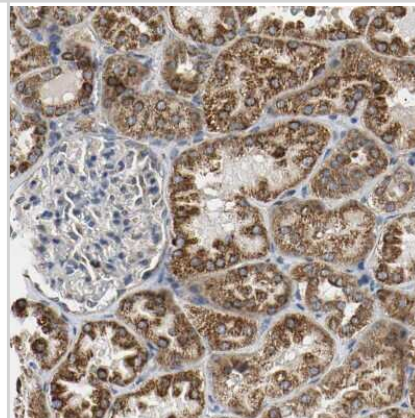
Western Blot: ACAT1 Antibody [NBP1-89284] - ACAT1 porcine cerebral cortex. Image from verified customer review.



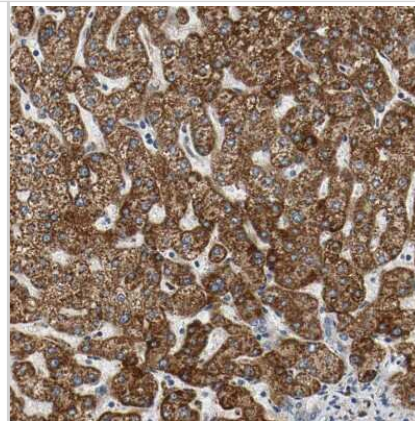
Immunohistochemistry-Paraffin: ACAT1 Antibody [NBP1-89284] - Staining of human testis shows strong positivity in mitochondria in cells in seminiferous ducts.



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]



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 NBP1-89284

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

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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