

# Product Datasheet

## LPCAT2 Antibody - BSA Free

### NBP1-88921

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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**NBP1-88921**

LPCAT2 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

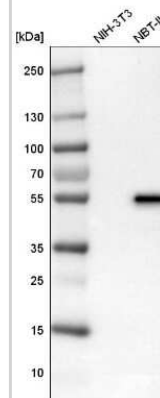
Product Description	
Description	Novus Biologicals Rabbit LPCAT2 Antibody - BSA Free (NBP1-88921) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-LPCAT2 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	54947
Gene Symbol	LPCAT2
Species	Human, Mouse, Rat
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:32140075).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: FALFDRNHDGSDIFREYVIGLAVLCNPSNTEEIQVAFKLFVDVDEDDGYITEEEFST ILQASLGVPDLVDVSGLFKEIAQGDSISYEEFKSFALKHPEYAKIFTTYLDLQTCHV FSLPKEVQTTPSTASNKVSPE

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200, Immunohistochemistry-Frozen Validated from verified customer review
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization, Use PFA/Triton X-100.

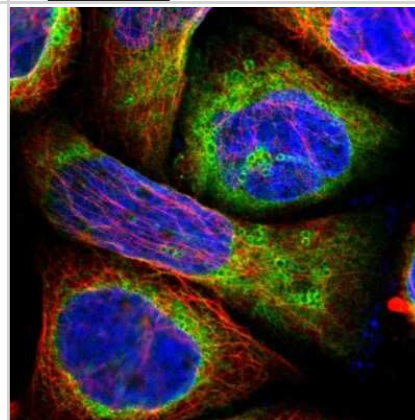


## Images

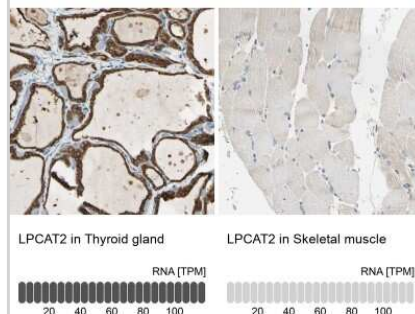
Western Blot: LPCAT2 Antibody [NBP1-88921] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



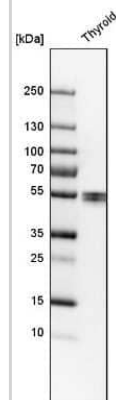
Immunocytochemistry/Immunofluorescence: LPCAT2 Antibody [NBP1-88921] - Staining of human cell line A-431 shows localization to endoplasmic reticulum & lipid droplets.



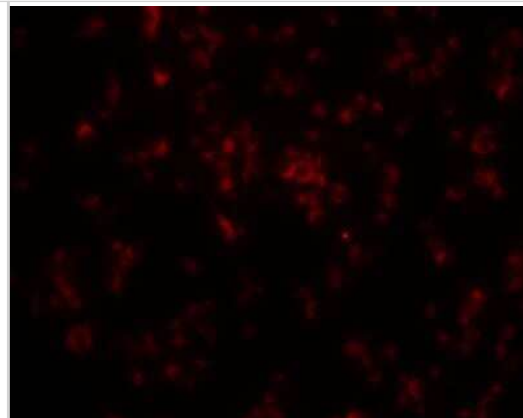
Immunohistochemistry-Paraffin: LPCAT2 Antibody [NBP1-88921] - Analysis in human thyroid gland and skeletal muscle tissues using NBP1-88921 antibody. Corresponding LPCAT2 RNA-seq data are presented for the same tissues.



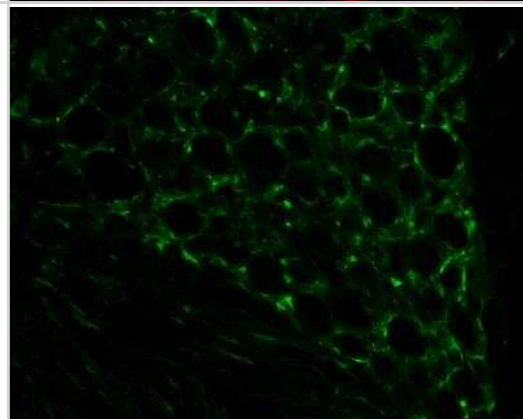
Western Blot: LPCAT2 Antibody [NBP1-88921] - Analysis in human thyroid gland tissue.



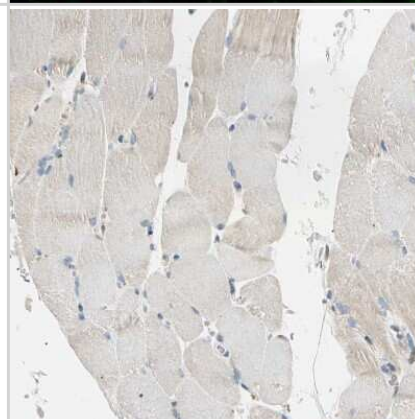
Immunocytochemistry/Immunofluorescence: LPCAT2 Antibody [NBP1-88921] - Staining of murine cell line RAW264.7. Image provided by product review by verified customer.



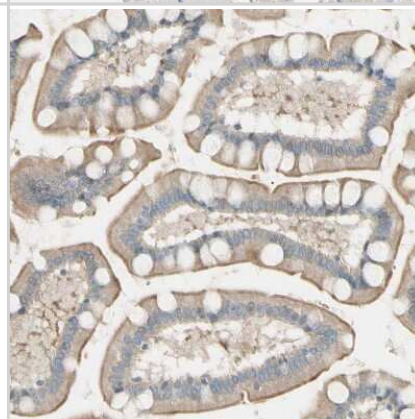
Immunohistochemistry-Frozen: LPCAT2 Antibody [NBP1-88921] - Staining of LPCAT2 in rat neuronal tissue using anti-LPCAT2 antibody. Image from verified customer review.



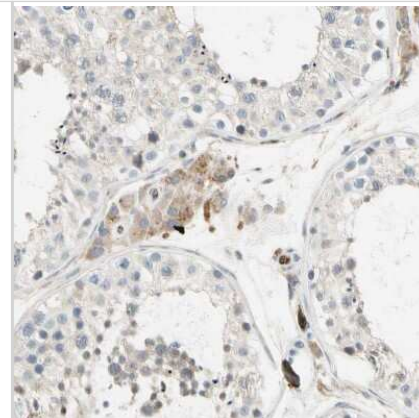
Immunohistochemistry-Paraffin: LPCAT2 Antibody [NBP1-88921] - Staining of human skeletal muscle shows very weak positivity in myocytes.



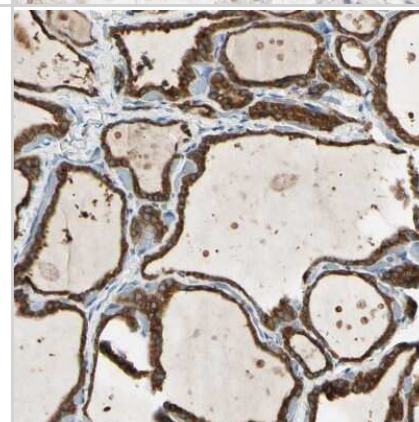
Immunohistochemistry-Paraffin: LPCAT2 Antibody [NBP1-88921] - Staining of human small intestine shows weak membranous positivity in glandular cells.



Immunohistochemistry-Paraffin: LPCAT2 Antibody [NBP1-88921] - Staining of human testis shows weak granular cytoplasmic positivity in Leydig cells.



Immunohistochemistry-Paraffin: LPCAT2 Antibody [NBP1-88921] - Staining of human thyroid gland shows strong granular cytoplasmic positivity in glandular cells.



## Publications

Abate W, Alrammah H, Kiernan M et al. Lysophosphatidylcholine acyltransferase 2 (LPCAT2) co-localises with TLR4 and regulates macrophage inflammatory gene expression in response to LPS Sci Rep 2020-06-25 [PMID: 32587324] (WB, Mouse)

Xiao X, Zhuang X, Xu C et al. ROBO4 deletion ameliorates PAF-mediated skin inflammation via regulating the mRNA translation efficiency of LPCAT1/LPCAT2 and the expression of PAF receptor Int. J. Biol. Sci. 2020-02-04 [PMID: 32140075] (WB, Mouse)

Hiroki Ishii, Masao Saitoh, Kaname Sakamoto, Kei Sakamoto Lipidome-based rapid diagnosis with machine learning for detection of TGF-beta signalling activated area in head and neck cancer British Journal of cancer 2020-01-01 [PMID: 32020064]

Helley MP, Abate W, Jackson SK et al. The expression of Toll-like receptor 4, 7 and co-receptors in neurochemical sub-populations of rat trigeminal ganglion sensory neurons. Neuroscience. 2015-12-03 [PMID: 26434622] (ICC/IF, WB, Rat)

Stadler C, Rexhepaj E, Singan VR et al. Immunofluorescence and fluorescent-protein tagging show high correlation for protein localization in mammalian cells. Nat Methods 2013-04-01 [PMID: 23435261]



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### **Products Related to NBP1-88921**

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NBP1-88921PEP	LPCAT2 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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