

# 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	
<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

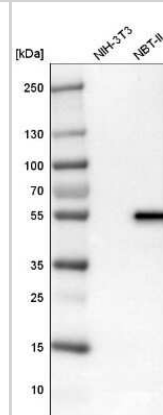
Product Description	
<b>Description</b>	Novus Biologicals Rabbit LPCAT2 Antibody - BSA Free (NBP1-88921) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-LPCAT2 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit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

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

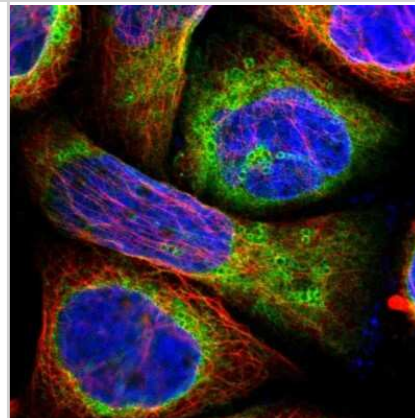


## Images

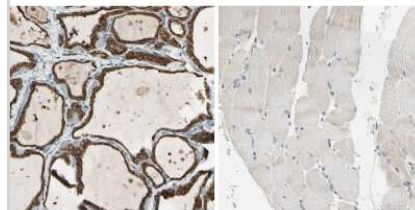
Western Blot: LPCAT2 Antibody [NBP1-88921] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



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

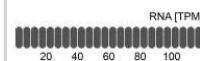


Immunohistochemistry-Paraffin: LPCAT2 Antibody [NBP1-88921] - Analysis in human thyroid gland and skeletal muscle tissues using NBP1-88921 antibody. Corresponding LPCAT2 RNA-seq data are presented for the same tissues.

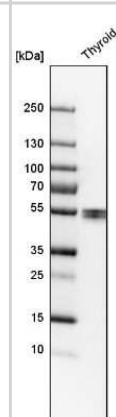


LPCAT2 in Thyroid gland

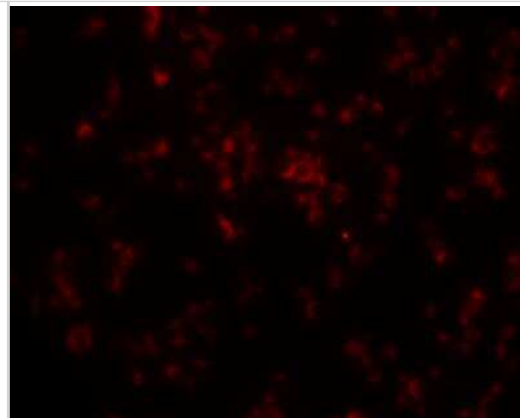
LPCAT2 in Skeletal muscle



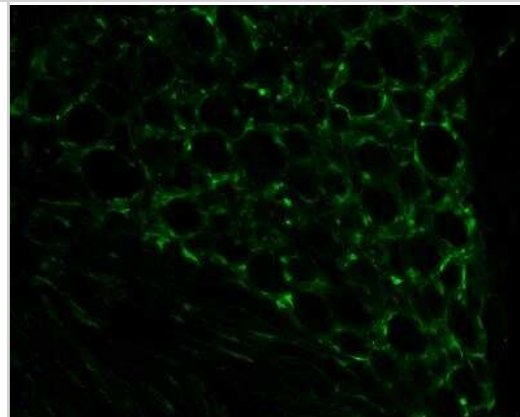
Western Blot: LPCAT2 Antibody [NBP1-88921] - Analysis in human thyroid gland tissue.



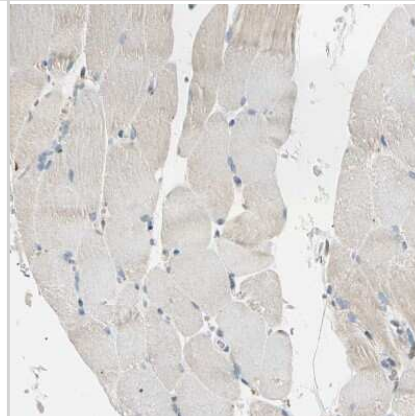
Immunocytochemistry/Immunofluorescence: LPCAT2 Antibody [NBP1-88921] - Staining of murine cell line RAW264.7. Image provided by product review by verified customer.



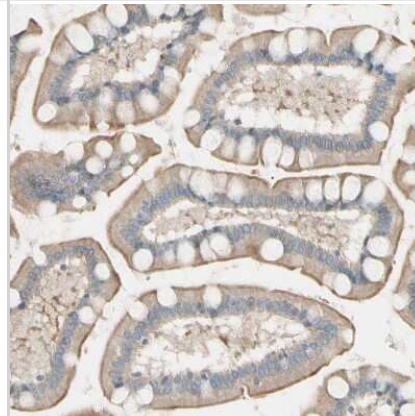
Immunohistochemistry-Frozen: LPCAT2 Antibody [NBP1-88921] - Staining of LPCAT2 in rat neuronal tissue using anti-LPCAT2 antibody. Image from verified customer review.



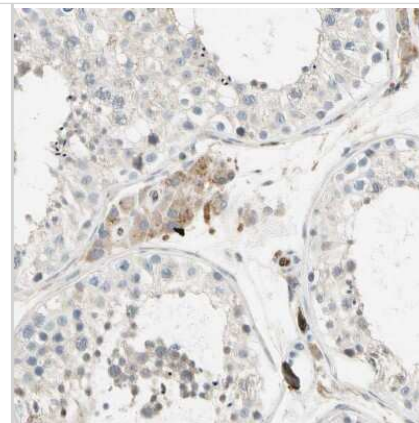
Immunohistochemistry-Paraffin: LPCAT2 Antibody [NBP1-88921] - Staining of human skeletal muscle shows very weak positivity in myocytes.



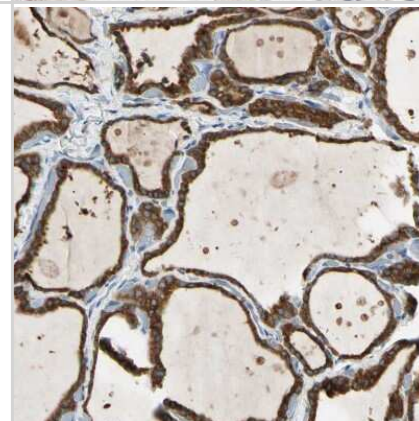
Immunohistochemistry-Paraffin: LPCAT2 Antibody [NBP1-88921] - Staining of human small intestine shows weak membranous positivity in glandular cells.



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
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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