

Product Datasheet

Lipin 1 Antibody - BSA Free NB110-57150

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NB110-57150

Lipin 1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	0.8 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	97 kDa

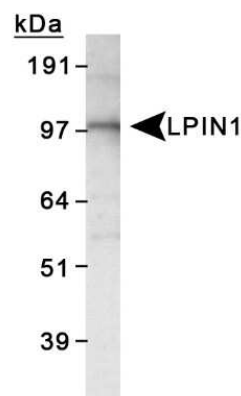
Product Description	
Description	Novus Biologicals Rabbit Lipin 1 Antibody - BSA Free (NB110-57150) is a polyclonal antibody validated for use in IHC and WB. Anti-Lipin 1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	23175
Gene Symbol	LPIN1
Species	Human, Mouse, Rat
Immunogen	A synthetic peptide to an internal region (within residues 300-400) of the human LPIN1 protein. [Swiss-Prot# Q14693]

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 1.0-2.0 ug/ml, Immunohistochemistry 1:100-1:250, Immunohistochemistry-Paraffin 1:100-1:250
Application Notes	This LPIN1 antibody is useful for Immunohistochemistry paraffin embedded sections and Western blot analysis, where a band is seen at ~97 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

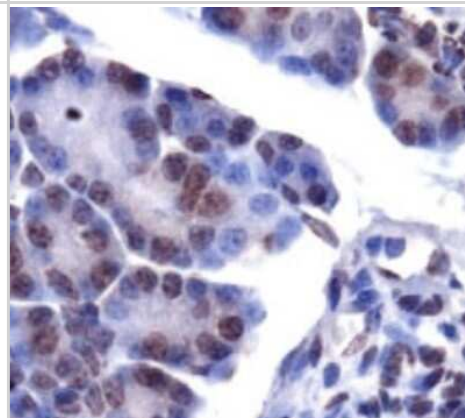


Images

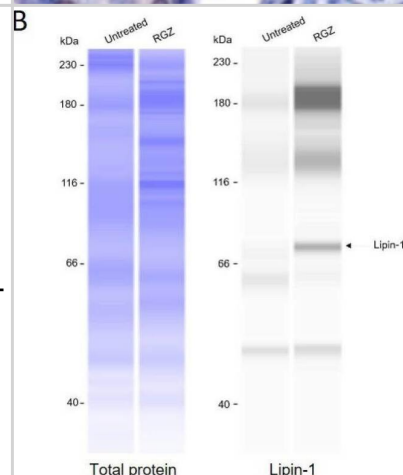
Western Blot: LPIN1 Antibody [NB110-57150] - Detection of LPIN1 in 3T3L1 lysate.



Immunohistochemistry: LPIN1 Antibody [NB110-57150] - Staining of LPIN1 in mouse pancreas.



PPAR γ activation upregulates Lipin-1, SIRT1, and SRSF10 expression and alters Lipin-1 isoform splicing in 3T3-L1 adipocytes. (A) Relative mRNA expression of Lpin1, Sirt1, and Srsf10 following PPAR γ activation by 5 μ M RGZ on Day 8 of differentiation. (B) Protein expression of Lipin-1 in RGZ-treated cells compared with untreated controls. (C) mRNA expression of Lpin1a and Lpin1b isoforms in the same treatment group. Statistical significance was assessed by Student's t-test for (A,B) and one-way ANOVA followed by Tukey's post hoc test for (C), comparing treated groups to the untreated control. Data are presented as means \pm SEM from three independent experiments. * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$; **** $p < 0.0001$; ns, not significant. Image collected and cropped by CiteAb from the following open publication (<https://www.mdpi.com/2227-9059/13/9/2069>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Hamzah S, Zamri L, Azar S et al. Lipin-1 Drives Browning of White Adipocytes via Promotion of Brown Phenotype Markers *Biomedicines* 2025-08-25 [PMID: 41007632]

Wei Z, Seldin MM, Natarajan N et al. C1q/TNF-related protein 11 (CTRP11), a novel adipose stroma-derived regulator of adipogenesis. *J Biol Chem* 2013-02-28 [PMID: 23449976] (WB, Mouse)

Kim D-K, Kim JR, Koh M et al. Estrogen-related receptor gamma (ERR{gamma}) is a novel transcriptional regulator of phosphatidic acid phosphatase, LIPIN1 and inhibits hepatic insulin signaling. *The Journal of Biological Chemistry*. 2011-09-12 [PMID: 21911493] (WB, Mouse)

Procedures

Western Blot protocol specific for LPIN1 Antibody (NB110-57150)

Lipin 1 Antibody:

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 30 ug of total protein per lane.
 2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
 3. Rinse membrane with dH₂O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
 4. Rinse the blot in TBS for approximately 5 minutes.
 5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS, 1 hour at room temperature.
 6. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
 7. Dilute the rabbit anti-LPIN1 primary antibody (NB 110-57150) in blocking buffer and incubate 2 hours at room temperature.
 8. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
 9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.
 10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
 11. Apply the detection reagent of choice in accordance with the manufacturer's instructions (Pierce, ECL).
- Note:** Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

Immunohistochemistry-Paraffin protocol for Lipin 1 Antibody (NB110-57150)

Lipin 1 Antibody:

Antigen Unmasking:

Bring slides to a boil in 10mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench top for 30 minutes.

Staining:

1. Wash sections in dH₂O three times for 5 minutes each.
2. Wash section in wash buffer (1X PBS/0.1% Tween-20 (1X PBST)) for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1X PBST, 5% goat serum) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul primary antibody diluted in 1X PBST, 5% goat serum to each section. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated secondary antibody, diluted in 1X PBST, 5% goat serum. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in dH₂O.
12. Counterstain sections in hematoxylin.
13. Wash sections in dH₂O two times for 5 minutes each.
14. Dehydrate sections.
15. Mount the coverslips.



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Products Related to NB110-57150

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

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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