

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

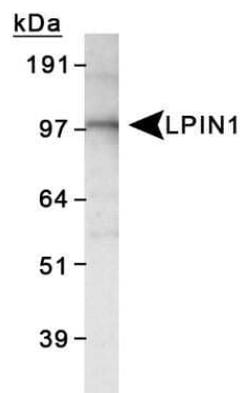
Product Description	
<b>Host</b>	Rabbit
<b>Gene ID</b>	23175
<b>Gene Symbol</b>	LPIN1
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	A synthetic peptide to an internal region (within residues 300-400) of the human LPIN1 protein. [Swiss-Prot# Q14693]

Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1.0-2.0 ug/ml, Immunohistochemistry 1:100-1:250, Immunohistochemistry-Paraffin 1:100-1:250
<b>Application Notes</b>	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.

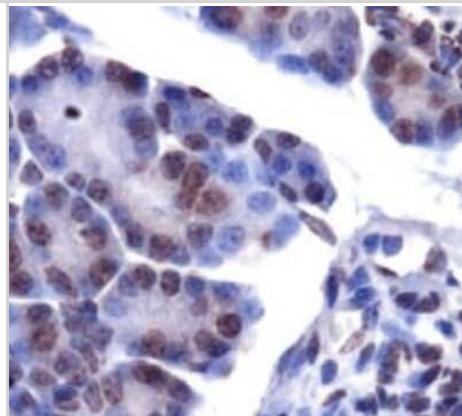


## Images

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



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



## Publications

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 dH<sub>2</sub>O 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 dH<sub>2</sub>O 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 dH<sub>2</sub>O 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 dH<sub>2</sub>O 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 dH<sub>2</sub>O.
12. Counterstain sections in hematoxylin.
13. Wash sections in dH<sub>2</sub>O two times for 5 minutes each.
14. Dehydrate sections.
15. Mount the coverslips.



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### **Products Related to NB110-57150**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB110-57150R	Lipin 1 Antibody [DyLight 550]

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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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