

Product Datasheet

Perilipin Antibody - BSA Free NB110-40760

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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Updated 2/21/2025 v.20.1

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NB110-40760

Perilipin Antibody - BSA Free

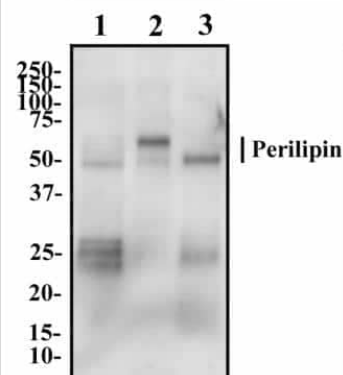
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	60 kDa

Product Description	
Host	Rabbit
Gene ID	5346
Gene Symbol	PLIN1
Species	Human, Mouse, Rat, Porcine, Fish
Reactivity Notes	Fish reactivity reported in scientific literature (PMID: 27012897).
Immunogen	This Perilipin Antibody was developed against a synthetic peptide made to a region between residues 450-522 (C-terminus) of the human Perilipin protein. [Swiss-Prot# O60240]

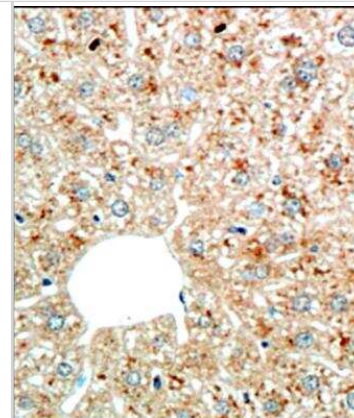
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Imaging Mass Cytometry
Recommended Dilutions	Western Blot 2 ug/mL, Flow Cytometry 5 - 10 ug/mL, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence reported in scientific literature, Immunohistochemistry-Paraffin 1:200, Imaging Mass Cytometry
Application Notes	This Perilipin antibody is useful for Western blot analysis where a band at ~60 kDa is seen. This Perilipin Antibody is validated for Imaging Mass Cytometry from a verified customer review.

Images

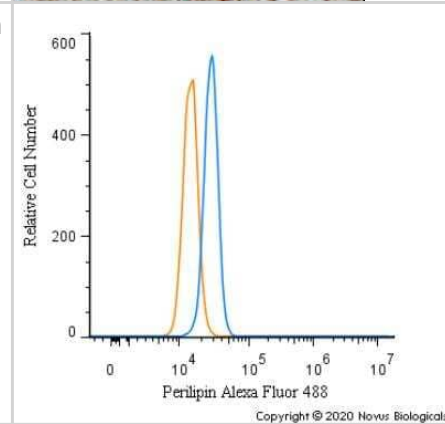
Western Blot: Perilipin Antibody [NB110-40760] - Total protein from Human breast (lane 1), Human adipose membrane fraction (lane 2) and Human adipose tissue (lane 3) were separated on a 12% gel by SDS-PAGE. Protein was transferred to PVDF membrane, probed with 2 ug/mL anti-perilipin antibody followed by anti-rabbit HRP conjugated secondary antibody and detected with chemiluminescence.



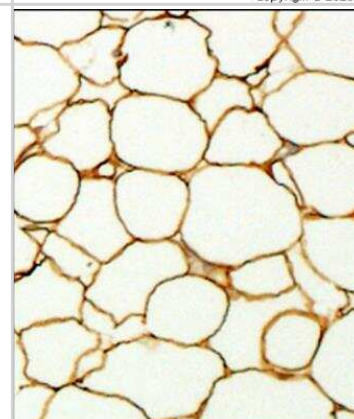
Immunohistochemistry-Paraffin: Perilipin Antibody [NB110-40760] - IHC analysis of formalin fixed paraffin embedded section of liver tissue from mouse with Perilipin antibody at 1:200 dilution. The hepatocytes developed specific staining in the cytoplasm and around the nuclei of some cells, the immunostaining reflected a punctate appearance which is potentially the ER of the cells.



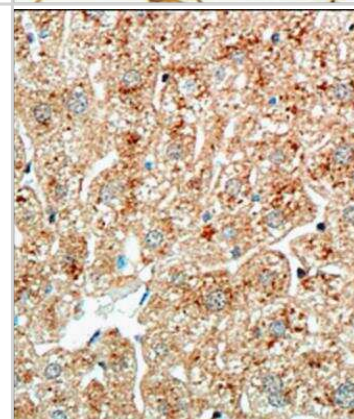
Flow Cytometry: Perilipin Antibody [NB110-40760] - An intracellular stain was performed on U2OS cells with Perilipin Antibody NB110-40760AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



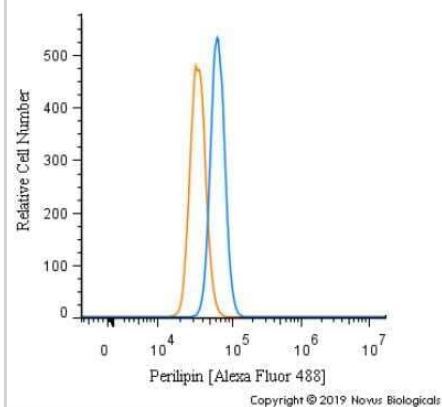
Immunohistochemistry-Paraffin: Perilipin Antibody [NB110-40760] - IHC analysis of formalin fixed paraffin embedded section of fat tissue from mouse with Perilipin antibody at 1:200 dilution. The antibody generated an expected staining in the adipocytes towards periphery of the cells.



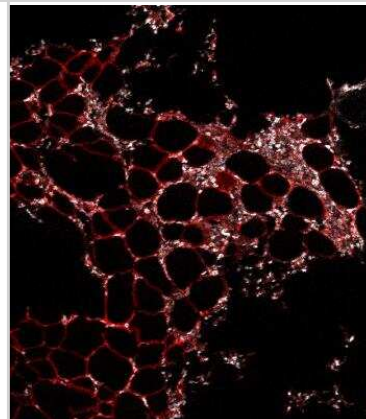
Immunohistochemistry-Paraffin: Perilipin Antibody [NB110-40760] - IHC analysis of formalin fixed paraffin embedded section of liver tissue from mouse with Perilipin antibody at 1:200 dilution. The hepatocytes developed specific staining in the cytoplasm and around the nuclei of some cells, the immunostaining reflected a punctate appearance which is potentially the ER of the cells.



Flow Cytometry: Perilipin Antibody [NB110-40760] - An intracellular stain was performed on MCF7 cells with Perilipin Antibody NB110-40760AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



Imaging Mass Cytometry: Perilipin Antibody [NB110-40760] - Human bone marrow analyzed by IMC. Perilipin antibody conjugated with ^{151}Eu and used 1:50 on human bone marrow FFPE. Perilipin - red. DNA - white. IMC image submitted by a verified customer review.



Publications

HA Himburg, CM Termini, L Schlussek, J Kan, M Li, L Zhao, T Fang, JP Sasine, VY Chang, JP Chute Distinct Bone Marrow Sources of Pleiotrophin Control Hematopoietic Stem Cell Maintenance and Regeneration Cell Stem Cell, 2018-08-09;0(0):. 2018-08-09 [PMID: 30100167]

Kasza I, Kohn JP, Vozike H et al. Contrasting recruitment of skin-associated adipose depots during cold challenge of mouse and human The Journal of Physiology 2022-02-01 [PMID: 33724479] (Immunohistochemistry)

Pedrosa M, Labandeira C, Lago-Baameiro N et al. Extracellular Vesicles and Their Renin-Angiotensin Cargo as a Link between Metabolic Syndrome and Parkinsons Disease Antioxidants 2023-11-26 [PMID: 38136165]

Zhao Y, Albrecht E, Li Z et al. Distinct Roles of Perilipins in the Intramuscular Deposition of Lipids in Glutamine-Supplemented, Low-, and Normal-Birth-Weight Piglets Frontiers in Veterinary Science 2021-06-21 [PMID: 34235195] (Immunohistochemistry)

Li C, Xu J, Yu Q et al. Mutation of the novel acetylation site at K414R of BECN1 is involved in adipocyte differentiation and lipolysis Journal of Cellular and Molecular Medicine 2021-07-01 [PMID: 34085745] (Western Blot)

Wei F, Tuong ZK, Omer M et al. A novel multifunctional radioprotective strategy using P7C3 as a countermeasure against ionizing radiation-induced bone loss Bone research 2023-06-29 [PMID: 37385982] (IHC-P, Rat)

Mahesh M, Pandey H, Raja Gopal Reddy M et al. Carrot Juice Consumption Reduces High Fructose-Induced Adiposity in Rats and Body Weight and BMI in Type 2 Diabetic Subjects Nutr Metab Insights 2021-08-05 [PMID: 34349520]

Otani N, Tomita K, Kuroda K et al. Effects of Temporary and Permanent Muscle Denervation on Fat Graft Retention in the Latissimus Dorsi Muscle: An Experimental Study in Rats Aesthetic plastic surgery 2022-02-28 [PMID: 35226118]

Wang R, Nissen NN, Zhang Y Et al. Circulating Fatty Objects and Their Preferential Presence in Pancreatic Cancer Patient Blood Samples Front Physiol 2022-03-03 [PMID: 35237181] (Human)

Details:

Citation using the Biotin version of this antibody.

Brigger D, Riether C, van Brummelen R et al. Eosinophils regulate adipose tissue inflammation and sustain physical and immunological fitness in old age Nat Metab 2020-07-06 [PMID: 32694825] (IF/IHC, Mouse)

Kasza I, Adler D, Nelson D et al. Evaporative Cooling Provides a Major Metabolic Energy Sink Molecular Metabolism 2019-07-01 [PMID: 31302039] (ICC/IF, Mouse)

Listenberger L, Townsend E, Rickertsen C et al. Decreasing Phosphatidylcholine on the Surface of the Lipid Droplet Correlates with Altered Protein Binding and Steatosis. Cells. 2018-11-24 [PMID: 30477200] (WB, Mouse)

More publications at <http://www.novusbio.com/NB110-40760>

Procedures

Western Blot protocol for Perilipin Antibody (NB110-40760)

Western Blot Protocol

1. Perform SDS-PAGE with a 12% gel 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, overnight at 4 degrees Celcius.
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-Perilipin primary antibody (NB 110-40760) 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 manufacturers 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 manufacturers instructions (Pierce's 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.





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Products Related to NB110-40760

NB820-59232	Human Liver Whole Tissue Lysate (Adult Whole Normal)
NB110-40760PEP	Perilipin Antibody Blocking Peptide
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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