

Product Datasheet

Perilipin-4 Antibody - BSA Free NBP2-13776

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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NBP2-13776

Perilipin-4 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 |

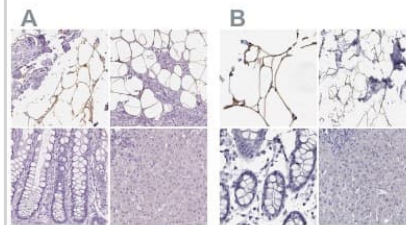
| Product Description | |
|-------------------------|---|
| Host | Rabbit |
| Gene ID | 729359 |
| Gene Symbol | PLIN4 |
| Species | Human, Mouse, Porcine |
| Reactivity Notes | Mouse reactivity reported in scientific literature (PMID: 26265748). Porcine reactivity reported from a verified customer review. |
| Immunogen | This antibody was developed against a recombinant protein corresponding to the amino acids: GVDTSKTVLTGKDTVCSGVTGAMNVAKGTIQTGVDTTKTVLTGKNTVCSGV TGAVNLAKEAIQGGLDTTKSMVMGKDTMSTGLTGAANVAKGAMQTGLNTTQ NIATGT |

| Product Application Details | |
|------------------------------|--|
| Applications | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin |
| Recommended Dilutions | Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:2500 - 1:5000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:2500 - 1:5000, Immunohistochemistry-Frozen Validated from a verified customer review. |
| Application Notes | For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. |

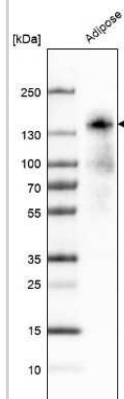


Images

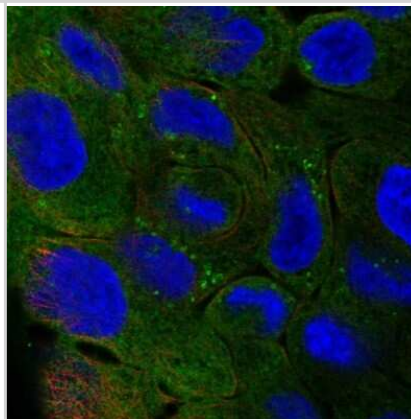
Immunohistochemistry-Paraffin: Perilipin-4 Antibody [NBP2-13776] - Staining of human adipose tissue, breast, colon and liver using Anti-Perilipin-4 antibody NBP2-13776 (A) shows similar protein distribution across tissues to independent antibody NBP2-38731 (B).



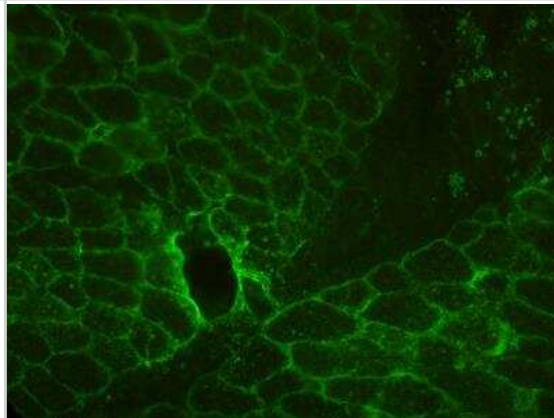
Western Blot: Perilipin-4 Antibody [NBP2-13776] - Analysis in human adipose tissue .



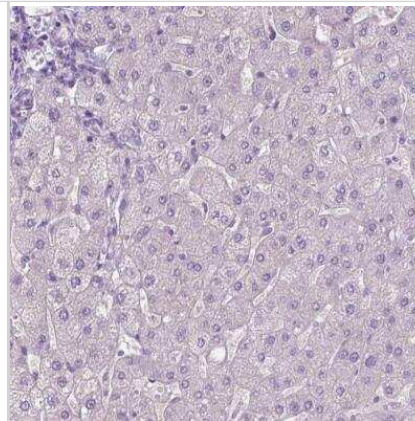
Immunocytochemistry/Immunofluorescence: Perilipin-4 Antibody [NBP2-13776] - Staining of human cell line RT4 shows localization to plasma membrane, cytosol & lipid droplets. Antibody staining is shown in green.



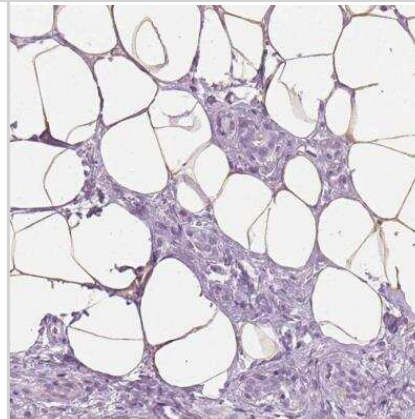
Immunohistochemistry-Frozen: Perilipin-4 Antibody [NBP2-13776] - Detection of PLIN4 in pig muscle tissue section. Antibody at 1:200 in PBS with 2% NGS. Secondary antibody at 1:1000 (Alexa Fluor 488 goat anti-rabbit IgG). IHC-Fr image submitted by a verified customer review.



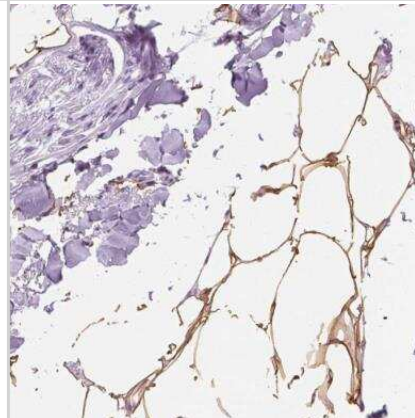
Immunohistochemistry-Paraffin: Perilipin-4 Antibody [NBP2-13776] - Staining of human liver shows no positivity in hepatocytes as expected.



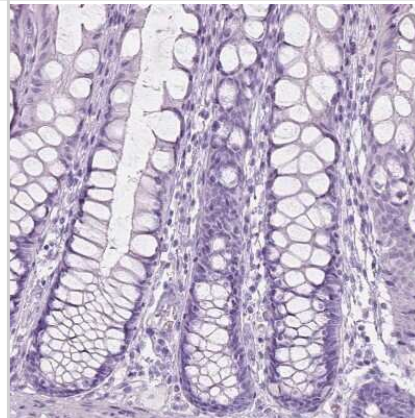
Immunohistochemistry-Paraffin: Perilipin-4 Antibody [NBP2-13776] - Staining of human breast shows moderate membranous positivity in adipocytes.



Immunohistochemistry-Paraffin: Perilipin-4 Antibody [NBP2-13776] - Staining of human adipose tissue shows moderate membranous positivity in adipocytes.



Immunohistochemistry-Paraffin: Perilipin-4 Antibody [NBP2-13776] - Staining of human colon shows no positivity in glandular cells as expected.



Publications

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)

Han X, Liu y, Dai y et al. Neuronal SH2B1 attenuates apoptosis in an MPTP mouse model of Parkinson's disease via promoting PLIN4 degradation *Redox Biology* 2022-06-01 [PMID: 35390677] (IHC-Fr, Mouse)

Zhang Q, Zhang P, Li B et al. The Expression of Perilipin Family Proteins can be used as Diagnostic Markers of Liposarcoma and to Differentiate Subtypes *J. Cancer* 2020-04-11 [PMID: 32368290]

Han X, Zhu J, Zhang X et al. Plin4-Dependent Lipid Droplets Hamper Neuronal Mitophagy in the MPTP/p-Induced Mouse Model of Parkinson's Disease. *Front Neurosci* 2018-06-18 [PMID: 29967574] (WB, ICC/IF, Mouse)

Pourteymour S, Lee S, Langleite TM et al. Perilipin 4 in human skeletal muscle: localization and effect of physical activity. *Physiol Rep* 2015-08-01 [PMID: 26265748] (IF/IHC, Mouse)

Heck MV, Azizov M, Stehning T et al. Dysregulated expression of lipid storage and membrane dynamics factors in Tia1 knockout mouse nervous tissue. *Neurogenetics* 2014-03-23 [PMID: 24659297] (WB, Mouse)





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Products Related to NBP2-13776

| | |
|---------------|---|
| NBP2-13776PEP | Perilipin-4 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 |

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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