Product Datasheet

Perilipin-3/TIP47 Antibody - BSA Free
NB110-40765

Unit Size: 0.1 ml

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

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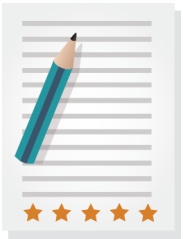


NB110-40765

Perilipin-3/TIP47 Antibody - BSA Free

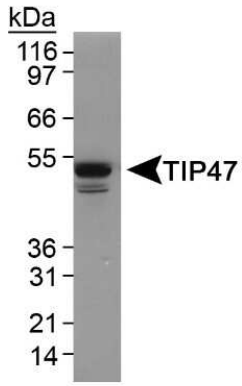
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Glycine and 0.15M NaCl
Target Molecular Weight	47 kDa

Product Description	
Host	Rabbit
Gene ID	10226
Gene Symbol	PLIN3
Species	Human, Mouse
Immunogen	A synthetic peptide made to a region within the N-terminus (within residues 1-100) of the mouse TIP47 protein. [Swiss-Prot# Q9DBG5]

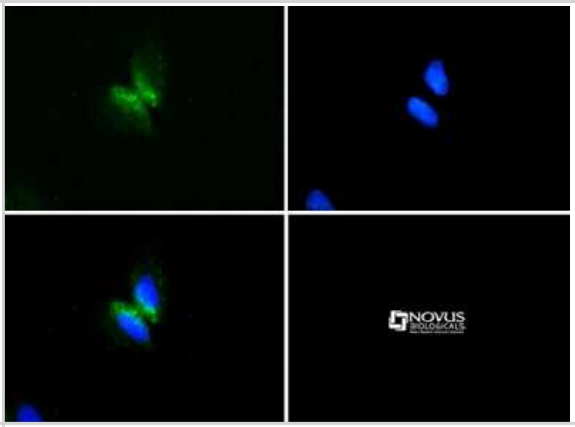
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:1000-1:5000, Simple Western 1:100, Immunocytochemistry/ Immunofluorescence 1:500
Application Notes	This TIP47 antibody is useful for Western Blot and Immunocytochemistry/Immunofluorescence. In Western Blot analysis, a band is seen approx. 47 kDa (isoform B, containing the first 184 residues that isoform A is lacking). In ICC/IF, endosomal staining was observed in U2OS cells. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in NIH-3T3 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:100, apparent MW was 54 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. 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

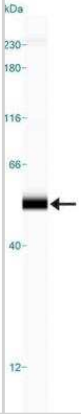
Western Blot: Perilipin-3/TIP47 Antibody [NB110-40765] - Detection of TIP47 in 3T3 L1 lysate.



Immunocytochemistry/Immunofluorescence: Perilipin-3/TIP47 Antibody [NB110-40765] - TIP47 antibody was tested in U2OS cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 549 (red).



Simple Western: Perilipin-3/TIP47 Antibody [NB110-40765] - Simple Western lane view shows a specific band for TIP47 in 0.5 mg/ml of NIH-3T3 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



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)

Dahl N Development of skeletal muscle and adipose tissues in neonatal dairy calves upon a maternal supplementation with essential fatty acids and conjugated linoleic acids Thesis 2022-01-01

Asimakopoulou A, Vucur M, Luedde T et al. Perilipin 5 and Lipocalin 2 Expression in Hepatocellular Carcinoma Cancers (Basel) 2019-03-19 [PMID: 30893876] (WB, Human, Mouse)

Imanishi Y et al. Retinyl ester homeostasis in the adipose differentiation-related protein-deficient retina. J Biol Chem 283(36):25091-102. 2008-09-05 [PMID: 18606814] (WB, Mouse)

Procedures

Western Blot protocol for TIP47 Antibody (NB110-40765)
Perilipin-3/TIP47 Antibody:
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted 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 three 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.
Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.

Immunocytochemistry/Immunofluorescence Protocol for TIP47 Antibody (NB110-40765)
Perilipin-3/TIP47 Antibody:
Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,0000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

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Products Related to NB110-40765

NB110-40765PEP	Perilipin-3/TIP47 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

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