Product Datasheet

Perilipin-3/TIP47 Antibody
NB110-40764SS

Unit Size: 0.025 ml

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

Publications: 3

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Perilipin-3/TIP47 Antibody

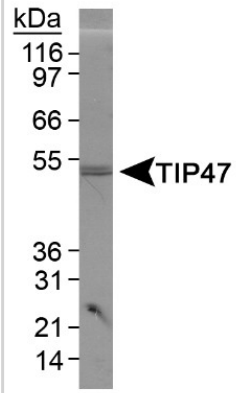
Product Information	
Unit Size	0.025 ml
Concentration	1.00 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Purity	Immunogen affinity purified
Buffer	Tris-glycine, 150 mM NaCl

Product Description	
Host	Rabbit
Gene ID	10226
Gene Symbol	PLIN3
Species	Human, Mouse, Primate, Porcine
Species Reactivity	Human, mouse, primate and porcine.
Immunogen	A synthetic peptide made to a region within the C-terminus (within residues 350-435) of the human TIP47 protein. [Swiss-Prot# O60664]

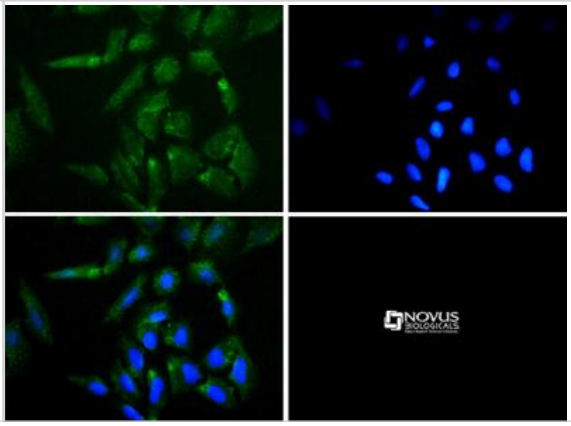
Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence
Recommended Dilutions	Immunocytochemistry/Immunofluorescence 1:100, Western Blot 2 ug/ml
Application Notes	This TIP47 antibody is useful for Western Blot and Immunocytochemistry/Immunofluorescence. In Western Blot analysis, a band is seen at ~47 kDa, representing isoform B in both human (faint) and mouse lysates. In some samples, a ~28 kDa band may be observed which represents a splice isoform. In ICC/IF, endosomal staining was observed in U2OS cells.

Images

Western Blot: TIP47 Antibody [NB110-40764] - Detection of TIP47 in 3T3 L1 lysate.



Immunocytochemistry/Immunofluorescence: TIP47 Antibody [NB110-40764] - TIP47 antibody was tested in U2OS cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 549 (red).



Publications

Covington Jd, Bajpeyi S, Moro C et al. Effects of exercise training in women with polycystic ovary syndrome on adipose expression of perilipin 3. Eur. J. Endocrinol. 2014 Oct 23 [PMID: 25342854] (WB, Human)

Covington JD, Galgani JE, Moro C et al. Skeletal Muscle Perilipin 3 and Coatomer Proteins Are Increased following Exercise and Are Associated with Fat Oxidation. PLoS ONE 3/17/2014 [PMID: 24632837] (WB, Human)

Wolins NE, Quaynor BK, Skinner JR et al. S3-12, Adipophilin, and TIP47 package lipid in adipocytes. J Biol Chem 280(19):19146-55. 2005 May 13. [PMID: 15731108] (ICC/IF, WB, Human, Mouse)

Procedures

Western Blot protocol for TIP47 Antibody (NB110-40764)
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 (NB110-40764)
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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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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.