Product Datasheet

Adropin Antibody - BSA Free
NBP1-26387

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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Publications: 3

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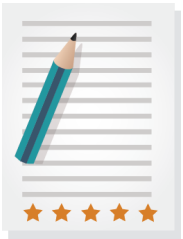
Updated 10/23/2024 v.20.1



NBP1-26387

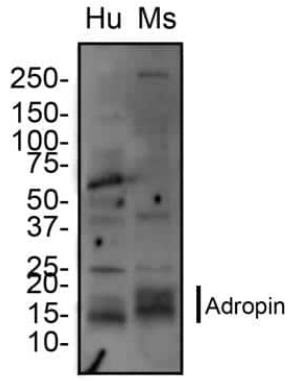
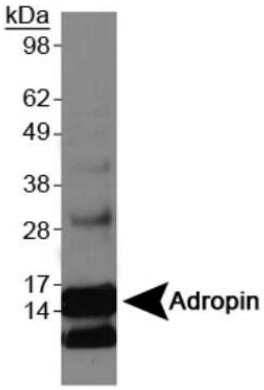
Adropin Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.11 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	8 kDa

Product Description	
Host	Rabbit
Gene ID	375704
Gene Symbol	ENHO
Species	Human, Mouse
Reactivity Notes	88% sequence identity with bovine protein.
Immunogen	Synthetic peptide made to an internal portion of human Adropin (within residues 10-60). [Swiss-Prot# Q6UWT2]

Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 2 ug/ml
Application Notes	A band can be seen at 15 kDa in Western Blot. 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: Adropin Antibody [NBP1-26387] - Total protein from Human and Mouse brain was separated on a 4-20% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/mL anti-Adropin in 1% non-fat milk in TBST and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.	
Western Blot: Adropin Antibody [NBP1-26387] - Western blot on Adropin overexpression lysate.	

Publications

Jia L, Liao L, Jiang Y et al. Low-dose adropin stimulates inflammasome activation of macrophage via mitochondrial ROS involved in colorectal cancer progression BMC cancer 2023-10-30 [PMID: 37904094] (WB, Human)

Lee MJ, Zhu J, An JH et al. A transcriptomic analysis of cerebral microvessels reveals the involvement of Notch1 signaling in endothelial mitochondrial-dysfunction-dependent BBB disruption Fluids and barriers of the CNS 2022-08-26 [PMID: 36028880] (WB, Mouse)

Details:
Proteins from isolated brain microvessels and brain tissue, dilution used 1:500

Yang W, Liu L, Wei Y et al. Exercise suppresses NLRP3 inflammasome activation in mice with diet-induced NASH: a plausible role of adropin Laboratory investigation; a journal of technical methods and pathology 2020-12-02 [PMID: 33268842] (WB)

Procedures

Serum protocol for Adropin Antibody (NBP1-26387)
Adropin Antibody:
Procedure Guide for NBP1-26387 - Adropin Antibody
Western Blot Protocol
1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 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% BSA in TBS + Tween, 1 hour at RT.
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-Adropin primary antibody (NBP1-26387) in blocking buffer and incubate 1 hour 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 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 NBP1-26387

NB820-59657	Mouse Brain Whole Tissue Lysate (Adult Whole Normal)
NBP1-26387PEP	Adropin 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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