

# Product Datasheet

## UCP3 Antibody NBP2-24608

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-24608**

## UCP3 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS and 0.05% BSA

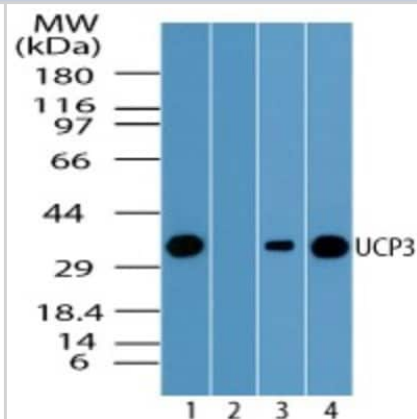
Product Description	
Description	Novus Biologicals Rabbit UCP3 Antibody (NBP2-24608) is a polyclonal antibody validated for use in WB. Anti-UCP3 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7352
Gene Symbol	UCP3
Species	Human, Mouse, Rat, Primate
Reactivity Notes	The amino acid sequence used as immunogen is 84% homologous in bovine.
Immunogen	A portion of amino acids 125-175 of human UCP3 was used as the immunogen.

Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 0.5-2.0 ug/ml

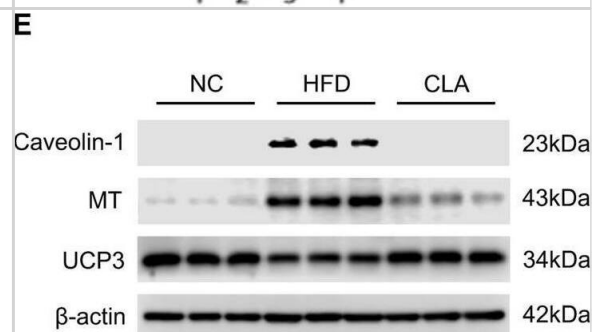


## Images

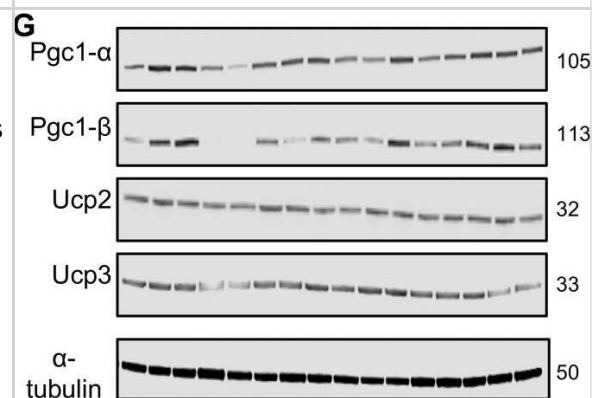
Western Blot: UCP3 Antibody [NBP2-24608] - Analysis of UCP3 in human heart lysate in the 1) absence and 2) presence of immunizing peptide, 3) mouse heart and 4) rat heart



Effect of CLA on the pWAT of mice induced with a HFD for 16 w. (A) Representative H and E staining of pWAT sections. Original magnification,  $\times 400$ . Scale bar, 50  $\mu\text{m}$ . (B) Adipocyte diameter and (C) Adipocyte area are shown ( $n = 6$ ). (D) Representative transmission electronic microscopy images of pWAT. M, mitochondria; original magnification,  $\times 0.7 \text{ k}$  and  $\times 3.0 \text{ k}$ . Scale bar, 10.0  $\mu\text{m}$ . (E) Detection of Caveolin-1, MT and UCP3 by Western blotting ( $n = 3$  in each group). (F) Representative fluorescence characterization of LipidTOX for detection of the adipocytes. (G) Representative fluorescence characterization of PECAM-1 for the detection of angiogenesis. Original magnification,  $\times 200$ . Scale bar, 50  $\mu\text{m}$ . Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34135763>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Measurement of protein expression for common molecular pathways associated with muscle wasting. (A–H) Western blotting results evaluating muscle proteins involved in ubiquitination (A and B, left), autophagy (C and D), anabolism (E and F), and mitochondria biogenesis and metabolism (G and H) from protein lysates made from quadriceps harvested at euthanasia. Results are from a single experiment with no tumor ( $n = 5$ ), KPC ( $n = 6$ ), and KPC IL6KO ( $n = 5$ ) tumor mice, and statistical differences (\*,  $P < 0.05$ ; \*\*,  $P < 0.01$ ; \*\*\*,  $P < 0.001$ ) were determined using ANOVA and Tukey's multiple comparisons test. Analysis of qPCR results for mRNA expression of E3 ubiquitin ligases Atrogin-1 and Murf1 in quadriceps was also performed (B, right). Data are from a single experiment with  $n = 5$  per group, and statistical differences (\*\*\*,  $P < 0.0001$ ) were determined with ANOVA and Tukey's multiple comparisons test. Error bars are mean and SD. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33851955>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



**Publications**

Qu M, Wang Q, Bai X et al. A gatekeeper sympathetic control of lacrimal tear secretion and dry eye onset through the NA-Adra1a-Ucp2 pathway. Nature Communications 2025-06-05 [PMID: 40473608]

Luo Z, Huang J, Li Z et al. Cajanolactone A, a Stilbenoid From *Cajanus cajan* (L.) Millsp, Prevents High-Fat Diet-Induced Obesity via Suppressing Energy Intake Frontiers in Pharmacology 2021-05-31 [PMID: 34135763] (Western Blot, Mouse)

Sekerci G Sicanlara meteorin-like protein uygulamasının hipotalamus-hipofiz-tiroid aksı ve periferel uncoupling proteinler Uzerindeki etkileri Thesis 1905-07-13

Rupert JE, Narasimhan A, Jengelley DHA et al. Tumor-derived IL-6 and trans-signaling among tumor, fat, and muscle mediate pancreatic cancer cachexia The Journal of experimental medicine 2021-06-07 [PMID: 33851955] (WB, Mouse)





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### **Products Related to NBP2-24608**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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### **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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