

Product Datasheet

UCP2 Antibody NB100-59742

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB100-59742

UCP2 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	33 kDa

Product Description	
Description	Novus Biologicals Goat UCP2 Antibody (NB100-59742) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-UCP2 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	7351
Gene Symbol	UCP2
Species	Human, Mouse, Rat
Reactivity Notes	Predicted cross-reactivity based on sequence similarity: Canine.
Immunogen	Peptide with sequence C-DSVKQFYTKGSEH corresponding to internal region according to NP_003346.2.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Peptide ELISA
Recommended Dilutions	Western Blot 0.3 - 1 ug/mL, Immunohistochemistry 6-7 ug/ml, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Peptide ELISA Detection limit 1:128000
Application Notes	WB: Approx 37kDa band observed in Rat Adipose and 28-30kDa in Mouse Spleen lysates (calculated MW of 33.4kDa according to Mouse NP_035801.3 and 33.4kDa according to Rat NP_062227.2).

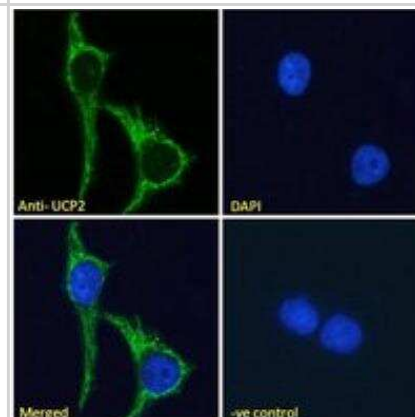


Images

Western Blot: UCP2 Antibody [NB100-59742] - Staining of rat adipose (A) and mouse spleen (B) lysate (35 ug protein in RIPA buffer). Antibody at 1 ug/mL. Detected by chemiluminescence. Approx 37 kDa band observed in rat adipose and 28-30 kDa in mouse spleen lysates (calculated MW of 33.4kDa according to Mouse NP_035801.3 and 33.4kDa according to Rat NP_062227.2).



Immunocytochemistry/Immunofluorescence: UCP2 Antibody [NB100-59742] - Analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing Mitochondrial staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



Publications

Xintong Zheng, Mingwei Wang, Shuting Liu, Haiqiao Chen, Yifei Li, Fa Yuan, Ludong Yang, Suo Qiu, Hongwei Wang, Zhi Xie, Mengqing Xiang A lncRNA-encoded mitochondrial micropeptide exacerbates microglia-mediated neuroinflammation in retinal ischemia/reperfusion injury *Cell Death & Disease* 2023-02-15 [PMID: 36792584]

Ghoshal B, Bertrand E, Bhattacharyya S Non-Canonical Ago Loading of EV-Derived Exogenous Single Stranded miRNA in Recipient Cells *J Cell Sci* 2021-03-31 [PMID: 33785534]

Pellegrin M, BouzourEne K, Aubert JF et al. Impact of aerobic exercise type on blood flow, muscle energy metabolism, and mitochondrial biogenesis in experimental lower extremity artery disease *Sci Rep* 2020-08-20 [PMID: 32820213] (WB, Mouse)

Bhattacharyya SN, Chatterjee S, Chakrabarty Y Mitochondria Controlled mTORC1 Activation Compartmentalizes Translation Initiation Factor eIF4E to Augment Intracellular Trafficking and Extracellular Export of miRNA in Mammalian Cells *bioRxiv* 2020-01-01 (WB, Human)

De Souza CT, Araujo EP, Stoppiglia LF et al. Inhibition of UCP2 expression reverses diet-induced diabetes mellitus by effects on both insulin secretion and action. *FASEB J* 2007-01-05 [PMID: 17209127]

Montez P, Vazquez-Medina JP, Rodriguez R et al. Angiotensin receptor blockade recovers hepatic UCP2 expression and aconitase and SDH activities and ameliorates hepatic oxidative damage in insulin resistant rats *Endocrinology*. 2012-12-01 [PMID: 23087176] (WB, Rat)

Kim SY, Hong SW, Kim MO et al. S-adenosyl methionine prevents endothelial dysfunction by inducing heme oxygenase-1 in vascular endothelial cells. *Mol Cells*. 2013-10-01 [PMID: 24046187] (WB, Human)

Vazquez-Medina JP, Popovich I, Thorwald MA et al. Angiotensin Receptor Mediated Oxidative Stress Is Associated with Impaired Cardiac Redox Signaling and Mitochondrial Function in Insulin Resistant Rats. *Am J Physiol Heart Circ Physiol* 2013-06-14 [PMID: 23771688] (WB, Rat)



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Products Related to NB100-59742

NB820-59662	Mouse Liver Whole Tissue Lysate (Adult Whole Normal)
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat 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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