Performance guarenteed

UCP3 Polyclonal Antibody

Product Details

Size	100 µg
Species Reactivity	Dog, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Туре	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues C R(295) A L M K V Q V L R E S P F(308) of mouse and rat UCP-3.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2213925

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-2 μg/mL	26 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

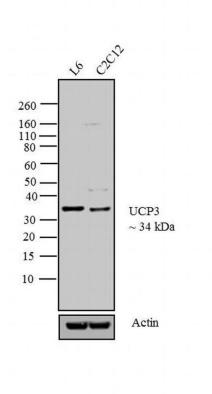
PA1-055 detects uncoupling protein-3 (UCP-3) mouse, rat, and canine tissues. This antibody will also detect recombinant human UCP-3, but does not detect UCP-3 from mouse liver or kidney.

PA1-055 has been successfully used in Western blot procedures. By Western blot, this antibody detects an ~30 kDa protein representing UCP-3 from rat heart homogenate.

The PA1-055 immunogen is a synthetic peptide corresponding to residues C R(295) A L M K V Q V L R E S P F(308) of mouse and rat UPC-3. This peptide differs from the porcine and human UCP-3 sequence by a single amino acid substitution. PA1-055 immunizing peptide (Cat. # PEP-074) is available for use in neutralization and control experiments.

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Product Images For UCP3 Polyclonal Antibody



UCP3 Antibody (PA1-055) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of L6 (Lane 1) and C2C12 (Lane 2). The blot was probed with Anti-UCP3 Rabbit Polyclonal Antibody (Product # PA1-055, 1 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal[™] Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 34 kDa band corresponding to UCP3 was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® ; 12% Bis-Tris gel (Product # NP0342BOX), XCell SureLock[™] Electrophoresis System (Product # El0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce[™] ECL Western Blotting Substrate (Product # 32106).

View more figures on thermofisher.com

27 References

Western Blot (26)

Cells

Oxygen Consumption and Basal Metabolic Rate as Markers of Susceptibility to Malignant Hyperthermia and Heat Stroke.

"Published figure using UCP3 polyclonal antibody (Product # PA1-055) in Western Blot" Authors: Serano M,Pietrangelo L,Paolini C,Guarnier FA,Protasi F

Metabolites				
Switching to a Standard Chow Diet at Weaning Improves the Effects of				
Maternal and Postnatal High-Fat and High-Sucrose Diet on				
Cardiometabolic Health in Adult Male Mouse Offspring.				
"PA1-055 was used in Protein Assay to test that switching to a standard chow diet after weaning would attenuate systemic metabolic disorders and cardiac and mitochondrial dysfunction associated with maternal and postnatal high-fat				

systemic metabolic disorders and cardiac and mitochondrial dysfunction associated with maternal and postnatal high-fat /high-sucrose (HFHS) diet in mice."

Authors: Chiñas Merlin A, Gonzalez K, Mockler S, Perez Y, Jia UA, Chicco AJ, Ullevig SL, Chung E

View more WB references on thermofisher.com

Year 2022

Species Mouse

Dilution 1:1000

Year 2022

Species Mouse

Miscellaneous PubMed (1)

American journal of physiology. Endocrinology and metabolism	Year 2015
Skeletal muscle dysfunction is associated with derangements in mitochondrial bioenergetics (but not UCP3) in a rodent model of sepsis.	Species Mouse
"Published figure using UCP3 polyclonal antibody (Product # PA1-055) in Western Blot"	
Authors: Zolfaghari PS,Carré JE,Parker N,Curtin NA,Duchen MR,Singer M	Dilution 1:1000

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