BOSTER BIOLOGICAL TECHNOLOGY
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Anti-UCP1 Antibody

Catalog Number: A00255

About UCP1

The mitochondrial brown fat uncoupling protein 1 (UCP1) is a member of the family of mitochondrial anion carrier proteins (MACP) (1). UCPs separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial proton leak. UCPs facilitate the transfer of anions from the inner to the outer mitochondrial membrane and the return transfer of protons from the outer to the inner mitochondrial membrane. They also reduce the mitochondrial membrane potential in mammalian cells (1). UCP1 is expressed only in brown adipose tissue, a specialized tissue which functions to produce heat (1).

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Overview

Product Name	Anti-UCP1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-UCP1 Antibody (Catalog # A00255). Tested in ELISA, WB, IHC-P applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC-P, WB
Clonality	Polyclonal
Formulation	UCP1 antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	UCP1 antibody can be stored at 4°C, stable for up to one year.
Host	Rabbit
Uniprot ID	P25874

Technical Details

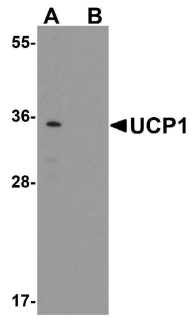
Immunogen	UCP1 antibody was raised against a 17 amino acid peptide near the carboxy terminus of human UCP1 (GenBank accession. The immunogen is located within the last 50 amino acids of UCP1.
Predicted Reactive Species	Chicken
Cross Reactivity	UCP1 antibody is human, mouse and rat reactive.

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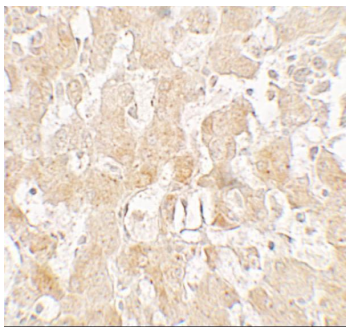
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	UCP1 antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	UCP1 antibody can be used for detection of UCP1 by Western blot at 1 - 2 ug/ml. Antibody can also be used for Immunohistochemistry starting at 2.5 ug/mL. Antibody validated: Western Blot in human samples and Immunohistochemistry in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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Anti-UCP1 Antibody (A00255) Images



Western blot analysis of UCP1 in human brain tissue lysate with UCP1 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of UCP1 in human liver tissue with UCP1 antibody at 2.5 ug/mL.

Anti-UCP1 Antibody

For Research Use Only. Not for use in diagnostic procedures.