



## UCP1 (ANT0090R) Rabbit mAb

CatalogNo: ANT8052 **Recombinant R**

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA  
Quantity : 100 ug/vial

### Host Species

- Rabbit
- Mouse,Rat,
- WB,IHC,IF,IP,ELISA

### Reactivity

### Applications

### MW

- 33kD (Calculated)
  - IgG,Kappa
- 33kD (Observed)

### Isotype

## Recommended Dilution Ratios

IHC 1:200-1000

WB 1:1000-5000

IF 1:200-1000

ELISA 1:5000-20000

IP 1:50-200

## Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

## Basic Information

**Clonality** Monoclonal

**Clone Number** ANT0090R

Endogenous

Target Information

Gene name UCP1 SLC25A7 UCP

Protein Name Mitochondrial brown fat uncoupling protein 1 (UCP 1) (Solute carrier family 25 member 7) (Thermogenin)

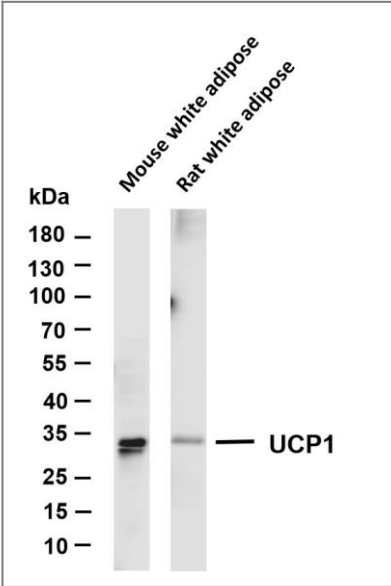
Organism	Gene ID	UniProt ID
Human	<a href="#">7350;</a>	<a href="#">P25874;</a>
Mouse		<a href="#">P12242;</a>
Rat		<a href="#">P04633;</a>

Cellular Localization Cytoplasm

Tissue specificity Brown adipose tissue.

Function Function:UCP are mitochondrial transporter proteins that create proton leaks across the inner mitochondrial membrane, thus uncoupling oxidative phosphorylation from ATP synthesis. As a result, energy is dissipated in the form of heat.,polymorphism:The Thr-64 polymorphism is associated with an increased waist-to-hip ratio. The Leu-229 polymorphism is associated with susceptibility to type II diabetes mellitus.,similarity:Belongs to the mitochondrial carrier family.,similarity:Contains 3 Solcar repeats.,subunit:Acts as a dimer forming a proton channel.,tissue specificity:Brown adipose tissue.,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-UCP1 (ANT0090R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Mouse white adipose Lane 2: Rat white adipose Predicted band size: 33kDa Observed band size: 33kDa

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