

UCP1 Polyclonal Antibody

Catalog No.	A7236	Category	Polyclonal Antibodies
Applications	WB	Observed MW	33kDa
Cross-reactivity	Human, Mouse, Rat	Calculated MW	33kDa

Immunogen Information

Immunogen	Recombinant protein of human UCP1
Gene ID	7350
Swiss prot	P25874
Synonyms	UCP1; SLC25A7; UCP; uncoupling protein 1

Product information

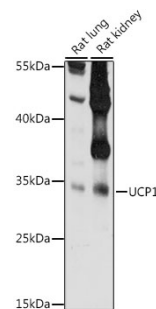
Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Background

Mitochondrial uncoupling proteins (UCP) are members of the family of mitochondrial anion carrier proteins (MACP). 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. Tissue specificity occurs for the different UCPs and the exact methods of how UCPs transfer H⁺/OH⁻ are not known. UCPs contain the three homologous protein domains of MACPs. This gene is expressed only in brown adipose tissue, a specialized tissue which functions to produce heat.

Recommended Dilutions

WB 1:500 -
1:2000



Western blot - UCP1 Polyclonal Antibody (A7236)