
Product Name: UCP1 Rabbit Monoclonal Antibody**Catalog #: AMRe86749**

For research use only.

Summary

Description	Recombinant rabbit monoclonal antibody
Host	Rabbit
Application	WB,IHC,IP
Reactivity	Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	0.1mg/ml. The concentration of this product may be batch-dependent.
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% protective protein. Stable for 12 months from date of receipt.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:1000-1:5000,IHC 1:500-1:2000,IP 1:20-1:50
Molecular Weight	Calculated MW:33 kDa; Observed MW:33 kDa

Antigen Information

Gene Name	UCP1
Alternative Names	Ucp; Slc25a7; A1385626
Gene ID	22227
SwissProt ID	P12242
Immunogen	A synthetic peptide of mouse UCP1

Background

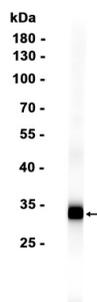
Mitochondrial uncoupling proteins (UCP) are members of the family of mitochondrial anion carrier proteins (MACP). UCPS separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial

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. [provided by RefSeq, Jul 2008]

Research Area

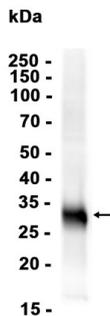
Image Data

Mouse brown adipose



Western blot analysis of extracts from Mouse brown adipose tissue using UCP1 Rabbit Monoclonal Antibody at 1:1000.

Rat kidney



Western blot analysis of extracts from Rat kidney tissue using AMRe86749 at 1:1000.