

Product datasheet

Mouse UCP3 peptide ab4994

1 References

Overview

Product name Mouse UCP3 peptide

Description

Nature Synthetic

Amino Acid Sequence

Accession [P56501](#)

Species Mouse

Sequence RALMKVQVLRES PF

Amino acids 295 to 308

Specifications

Our [Abpromise guarantee](#) covers the use of **ab4994** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Blocking

Form Liquid

Additional notes

This peptide may be used for neutralization and control experiments with the polyclonal antibody that reacts with this product and mouse UCP 3, catalog [ab3477](#). Using a solution of peptide of equal volume and concentration to the corresponding antibody will yield a large molar excess of peptide (~ 70-fold) for competitive inhibition of antibody-protein binding reactions.

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

General Info

Function UCP are mitochondrial transporter proteins that create proton leaks across the inner

mitochondrial membrane, thus uncoupling oxidative phosphorylation. As a result, energy is dissipated in the form of heat. May play a role in the modulation of tissue respiratory control. Participates in thermogenesis and energy balance.

Tissue specificity

Only in skeletal muscle and heart. Is more expressed in glycolytic than in oxidative skeletal muscles.

Involvement in disease

Defects in UCP3 may be involved in obesity (OBESITY) [MIM:601665]. It is a condition characterized by an increase of body weight beyond the limitation of skeletal and physical requirements, as the result of excessive accumulation of body fat.

Sequence similarities

Belongs to the mitochondrial carrier family.
Contains 3 Solcar repeats.

Cellular localization

Mitochondrion inner membrane.

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