

Anti-UCP3 Antibody

Rabbit polyclonal antibody to UCP3

Catalog # AP60522

Product Information

Application	WB
Primary Accession	P55916
Other Accession	P56501
Reactivity	Human, Mouse, Rat, Pig, Drosophila
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34216

Additional Information

Gene ID	7352
Other Names	SLC25A9; Mitochondrial uncoupling protein 3; UCP 3; Solute carrier family 25 member 9
Target/Specificity	Recognizes endogenous levels of UCP3 protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	UCP3 {ECO:0000303 PubMed:9180264, ECO:0000312 HGNC:HGNC:12519}
Function	Putative transmembrane transporter that plays a role in mitochondrial metabolism via an as yet unclear mechanism (PubMed: 21775425 , PubMed: 36114012). Originally, this mitochondrial protein was thought to act as a proton transmembrane transporter from the mitochondrial intermembrane space into the matrix, causing proton leaks through the inner mitochondrial membrane, thereby uncoupling mitochondrial membrane potential generation from ATP synthesis (PubMed: 11171965 , PubMed: 12670931 , PubMed: 12734183 , PubMed: 9305858). However, this function is controversial and uncoupling may not be the function, or at least not the main function, but rather a consequence of more conventional metabolite transporter activity (PubMed: 11707458).
Cellular Location	Mitochondrion inner membrane {ECO:0000250 UniProtKB:P56501}; Multi-pass membrane protein

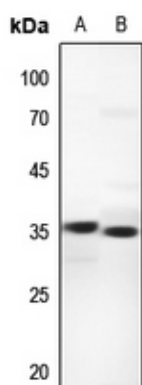
Tissue Location

Only in skeletal muscle and heart (PubMed:9305858). Also expressed in white and brown adipose tissues (PubMed:9305858). Is more expressed in glycolytic than in oxidative skeletal muscles

Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human UCP3. The exact sequence is proprietary.

Images



Western blot analysis of UCP3 expression in mouse muscle (A), rat kidney (B) whole cell lysates.

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