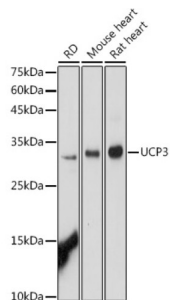
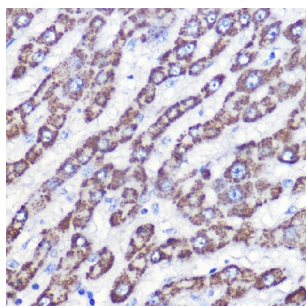


Mitochondrial Uncoupling Protein 3 (UCP3) Antibody

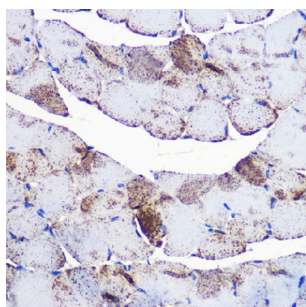
Catalogue No.: abx001290



Western blot analysis of extracts of various cell lines using STX17 Antibody (1/1000 dilution).



Immunohistochemistry of paraffin-embedded human liver using UCP3 Antibody (1/100 dilution, 40x lens). Microwave antigen retrieval was performed in 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded mouse skeletal muscle using UCP3 Antibody (1/100 dilution, 40x lens). Microwave antigen retrieval was performed in 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

UCP3 Antibody is a Rabbit Polyclonal antibody against UCP3. The uncoupling protein UCP1 (formerly designated UCP) is an integral membrane protein unique to brown adipose tissue mitochondria. UCP1 forms a dimer that acts as a proton channel, which can uncouple oxidative phosphorylation by dissipating the electrochemical potential across the inner mitochondrial membrane. This process induces heat production in brown adipose tissue and is involved in regulation of body temperature and glucose metabolism. UCP2 is a structurally related protein that also uncouples mitochondrial respiration. It is more widely expressed in human and mouse tissues, including white adipose tissue and muscle, than is UCP1. UCP2 is thought to play a role in body weight regulation. An additional UCP family member, UCP3, is highly muscle specific and is possibly involved in the uncoupling of oxidative phosphorylation in skeletal muscle.

Target: Mitochondrial Uncoupling Protein 3 (UCP3)

Clonality: Polyclonal

Reactivity: Human, Mouse, Rat

Tested Applications: WB, IHC

Datasheet

Version: 4.0.0
Revision date: 13 Jun 2025



Host: Rabbit

Recommended dilutions: WB: 1/500 - 1/2000, IHC-P: 1/50 - 1/200. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.

Conjugation: Unconjugated

Immunogen: Recombinant fusion protein corresponding to human UCP3

Isotype: IgG

Form: Liquid

Purification: Purified by affinity chromatography.

Storage: Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

UniProt Primary AC: P55916 ([UniProt](#), [ExPASy](#))

Gene Symbol: UCP3

GeneID: [7352](#)

NCBI Accession: NP_073714.1

KEGG: hsa:7352

String: [9606.ENSP00000323740](#)

Molecular Weight: Calculated MW: 22 kDa/29 kDa/34 kDa
Observed MW: 34 kDa

Buffer: PBS, pH 7.3, containing 0.01% thiomersal, 50% glycerol.

Concentration: 1 mg/ml

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.