

Rabbit UCP3 Polyclonal Antibody | anti-UCP3 antibody

UCP3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326212	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

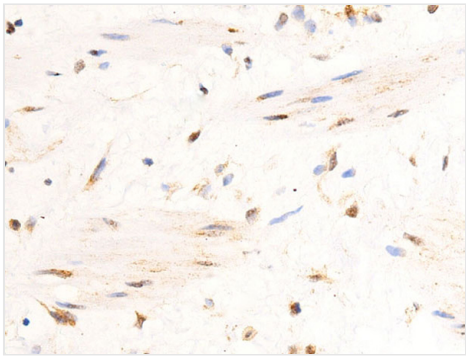
PRODUCT SYNONYMS

UCP3; Polyclonal Antibody; UCP3 Antibody; Mitochondrial uncoupling protein 3; SLC25A9; Solute carrier family 25 member 9; UCP 3; UCP3_HUMAN; Uncoupling protein 3; Uncoupling protein 3 mitochondrial proton carrier; anti-UCP3 antibody

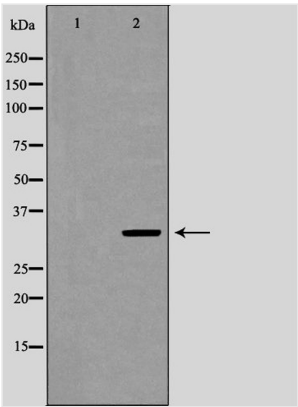
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	UCP3 antibody detects endogenous levels of total UCP3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	312
Applicable Applications for anti-UCP3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human UCP3
Subcellular Location	Mitochondrion Inner Membrane.
Tissue Specificity	Only in skeletal muscle and heart. Is more expressed in glycolytic than in oxidative skeletal muscles.
Predicted Cross Reactivity	Pig, Horse, Dog
Similarity	Pig (88%), Horse (88%), Dog (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326212 at 1/200 staining human heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of skeletal muscle, using UCP3 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-UCP3 antibody

Description: 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.

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.

Similarity: Belongs to the mitochondrial carrier (TC 2.A.29) family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507807
NCBI GeneID	7352
NCBI Accession #	NP_003347.1
NCBI GenBank Nucleotide #	NM_003356.3
UniProt Accession #	P55916; O60475; Q96HL3
Molecular Weight	Observed: 34 kDa Predicted: 35 kDa
NCBI Official Full Name	mitochondrial uncoupling protein 3 isoform UCP3L
NCBI Official Synonym Full Names	uncoupling protein 3
NCBI Official Symbol	UCP3
NCBI Official Synonym Symbols	SLC25A9
NCBI Protein Information	mitochondrial uncoupling protein 3
UniProt Protein Name	Mitochondrial uncoupling protein 3
UniProt Gene Name	UCP3
UniProt Synonym Gene Names	SLC25A9; UCP 3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ucp3-antibody-immunohistochemistry-western-blot-elisa/326212>