

Rabbit UCP3 Polyclonal Antibody | anti-UCP3 antibody

UCP3 Rabbit pAb

CATALOG # AAA281726	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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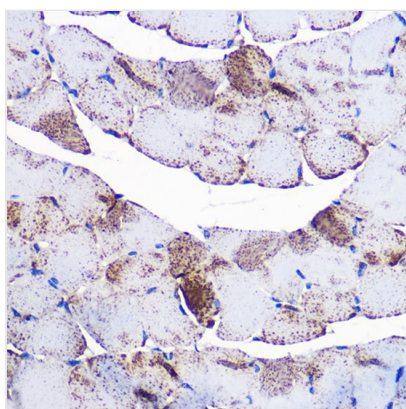
PRODUCT SYNONYMS

UCP3; Polyclonal Antibody; UCP3 Rabbit pAb; SLC25A9; anti-UCP3 antibody

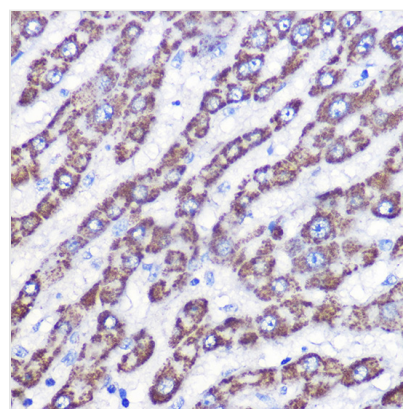
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Applicable Applications for anti-UCP3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human UCP3.
Cellular Location	Mitochondrion inner membrane, Multi-pass membrane protein
Positive Samples	RD, Mouse heart, Rat heart
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

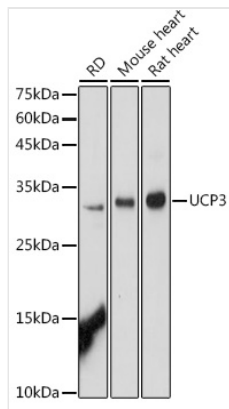
IMAGES


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse skeletal muscle using UCP3 Rabbit pAb at dilution of 1:100 (40x lens).


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human liver using UCP3 Rabbit pAb at dilution of 1:100 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using STX17 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3s.

ADDITIONAL INFORMATION

Related Product Information for anti-UCP3 antibody	Background: Mitochondrial uncoupling proteins (UCP) are members of the larger 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. The different UCPs have tissue-specific expression; this gene is primarily expressed in skeletal muscle. This gene's protein product is postulated to protect mitochondria against lipid-induced oxidative stress. Expression levels of this gene increase when fatty acid supplies to mitochondria exceed their oxidation capacity and the protein enables the export of fatty acids from mitochondria. UCPs contain the three solcar protein domains typically found in MACPs. Two splice variants have been found for this gene.
Product Categories/Family for anti-UCP3 antibody	Endocrine & Metabolism; Mitochondrial metabolism; Mitochondrial markers; Research; Endocrine & Metabolism; Endocrine and metabolic diseases; Diabetes; Research; Endocrine & Metabolism; Endocrine and metabolic diseases; Obesity; Research; Cardiovascular; L

NCBI AND UNIPROT INFORMATION

NCBI GI #	2497983
NCBI GeneID	7352
UniProt Accession #	P55916; O60475; Q96HL3
Molecular Weight	312
NCBI Official Full Name	Mitochondrial uncoupling protein 3
NCBI Official Synonym Full Names	uncoupling protein 3 (mitochondrial, proton carrier)
NCBI Official Symbol	UCP3
NCBI Official Synonym Symbols	SLC25A9
NCBI Protein Information	mitochondrial uncoupling protein 3; solute carrier family 25 member 9
UniProt Protein Name	Mitochondrial uncoupling protein 3
UniProt Gene Name	UCP3
UniProt Synonym Gene Names	SLC25A9; UCP 3
UniProt Entry Name	UCP3_HUMAN

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/281726>