

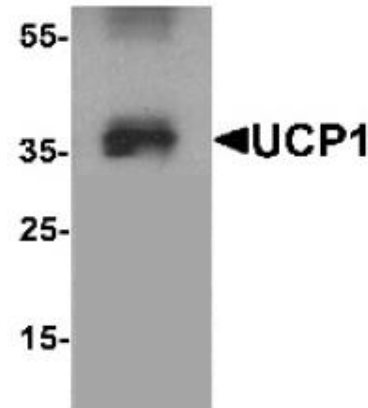
UCP1 Antibody

ALTERNATE NAMES:	Uncoupling protein 1, mitochondrial brown fat uncoupling protein 1, solute carrier family 25 member 7, SLC25A7, Thermogenin
CATALOG #:	6637-50
AMOUNT:	50 µg
HOST:	Rabbit
IMMUNOGEN:	UCP1 antibody was raised against a 17 amino acid peptide near the carboxy terminus of human UCP1
PURIFICATION:	Affinity chromatography purified via peptide column
MOLECULAR WEIGHT:	Predicted: 34 kDa. Observed: 36 kDa
FORM:	Liquid
FORMULATION:	Supplied as 1 mg/ml in PBS containing 0.02% sodium azide
SPECIES REACTIVITY:	Human, Mouse, Rat
STORAGE CONDITIONS:	TIP60 antibody can be stored at 4°C for three months and at -20°C, stable for up to one year.

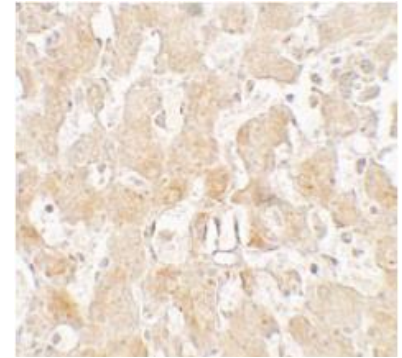
DESCRIPTION: The mitochondrial brown fat uncoupling protein 1 (UCP1) is a member of the family of mitochondrial anion carrier proteins (MACP). UCPs separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial proton leak. UCPs facilitate 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. UCP1 is expressed only in brown adipose tissue, a specialized tissue which functions to produce heat.

APPLICATION: Western blot: 1 - 2 µg/mL, IHC: 2.5 µg/mL, ELISA.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



Western blot analysis of UCP1 in HeLa cell lysate with UCP1 antibody at 1 µg/mL.



Immunohistochemistry of UCP1 in human liver tissue with UCP1 antibody at 2.5 µg/mL.

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