

UCP1 Antibody

Catalog No: #43429

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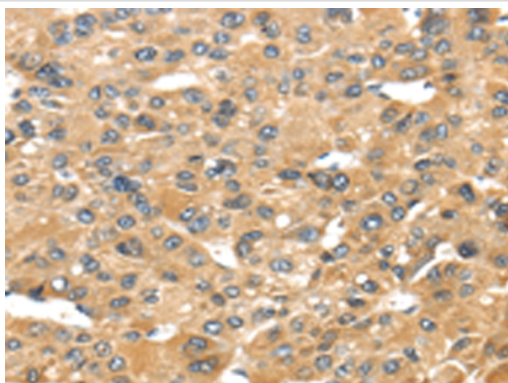
Description

Product Name	UCP1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification.
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total UCP1 protein.
Immunogen Description	Synthetic peptide of human UCP1
Target Name	UCP1
Other Names	UCP; SLC25A7
Accession No.	Swiss-Prot#: P25874 Gene ID: 7350
Uniprot	P25874
GeneID	7350;
Concentration	2.6mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol.
Storage	Store at -20°C

Application Details

Immunohistochemistry: 1:20-1:100

Images



Immunohistochemical analysis of paraffin-embedded Human liver cancer tissue using #43429 at dilution 1/40,

Background

Mitochondrial uncoupling proteins (UCP) are members 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. Tissue specificity occurs for the different UCPs and the exact methods of how UCPs transfer H⁺/OH⁻ are not known. UCPs contain the three homologous protein domains of MACPs. This gene is expressed only in brown

adipose tissue, a specialized tissue which functions to produce heat.

Note: This product is for in vitro research use only