

UCP2 Antibody

Catalog No: #40280

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

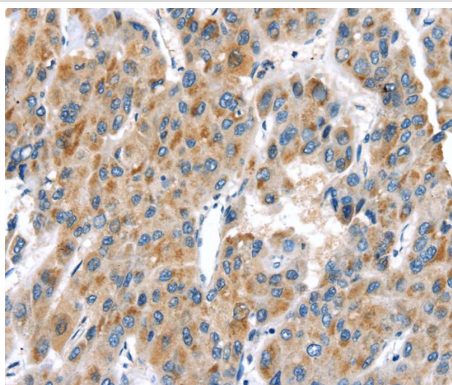
Description

Product Name	UCP2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification.
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total UCP2 protein.
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide of human uncoupling protein 2 (mitochondrial, proton carrier)
Target Name	UCP2
Other Names	UCPH; BMIQ4; SLC25A8
Accession No.	Swiss-Prot:P55851 Gene Accssion:NP_003346
Uniprot	P55851
GeneID	7351;
Concentration	1.4mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol.
Storage	Store at -20°C

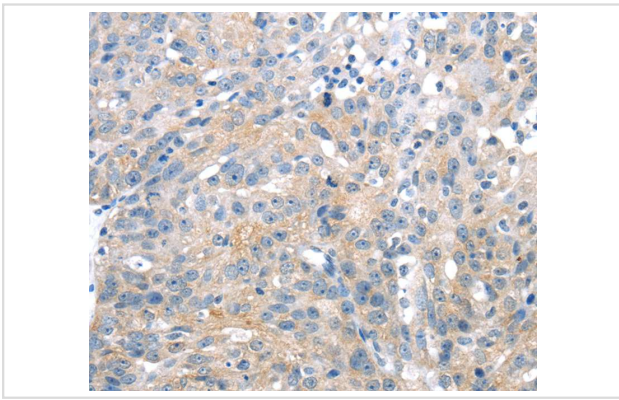
Application Details

Immunohistochemistry:1:25-1:100

Images



Immunohistochemical analysis of paraffin-embedded Human liver cancer tissue using #40280 at dilution 1/20.



Immunohistochemical analysis of paraffin-embedded Human breast cancer tissue using #40280 at dilution 1/20.

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. 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 in many tissues, with the greatest expression in skeletal muscle. It is thought to play a role in nonshivering thermogenesis, obesity and diabetes. Chromosomal order is 5'-UCP3-UCP2-3'.

Note: This product is for in vitro research use only