G-Biosciences Image not found or type unknown

Immunotag™ UCP1 Antibody

Antibody Specification

Catalog No.	ITA7724
Product Description	Immunotag™ UCP1 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	UCP1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,ELISA
Recommended Dilution	WB 1:1000-3000 IHC 1:200
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human UCP1
Specificity	UCP1 Antibody detects endogenous levels of total UCP1
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	UCP1
Accession No.	P25874
Alternate Names	mitochondrial brown fat uncoupling protein; Mitochondrial brown fat uncoupling protein 1; SLC25A7; Solute carrier family 25 member 7; Thermogenin; UCP 1; UCP; UCP1; UCP1_HUMAN; uncoupling protein 1 (mitochondrial, proton carrier); Uncoupling protein 1;

Antibody Specification

Description	Mitochondrial protein responsible for thermogenic respiration, a specialized capacity of brown adipose tissue and beige fat that participates to non-shivering adaptive thermogenesis to temperature and diet variations and more generally to the regulation of energy balance (By similarity). Functions as a long-chain fatty acid/LCFA and proton symporter, simultaneously transporting one LCFA and one proton through the inner mitochondrial membrane (PubMed:24196960). However, LCFAs remaining associated with the transporter via their hydrophobic tails, it results in an apparent transport of protons activated by LCFAs. Thereby, dissipates the mitochondrial proton gradient and converts the energy of substrate oxydation into heat instead of ATP. Regulates the production of reactive oxygen species/ROS by mitochondria (By similarity).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	34 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.