

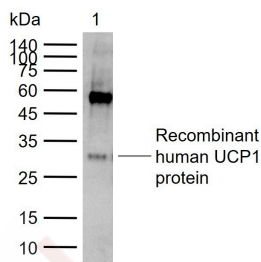
Anti-UCP1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat)
Molecular Weight:	Theoretical: 33 kDa. Actual: 32 kDa.
Purification:	Protein A purified

Applications

Sample:
Lane 1: Recombinant human UCP1 protein, His
Verified Activity:
Primary: Anti-UCP-1 (TMAB-01930) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 33 kDa
Observed band size: 32 kDa



Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human UCP-1
Antigen Species:	Human
Gene ID:	7350
Uniprot ID:	P25874
Synonyms:	Mitochondrial brown fat uncoupling protein 1;UCP1;UCP 1;SLC25A7;Solute carrier family 25 member 7;UCP;Thermogenin
Biology Area:	Metabolism of lipids and lipoproteins,Energy Metabolism,Lipid metabolism,Mitochondrial markers,Obesity,Energy Metabolism,Mitochondrial

Research 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

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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. [provided by RefSeq].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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