

**Product Information**

<b>Product SKU:</b>	CAB18853	<b>Gene ID:</b>	281561	<b>Size:</b>	20uL, 100uL
<b>Clone No:</b>	-	<b>Host Species:</b>	Rabbit	<b>Reactivity:</b>	Mouse

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**Additional Information**

<b>Observed MW:</b>	30kDa	<b>Conjugate:</b>	Unconjugated
<b>Calculated MW:</b>	33kDa	<b>Isotype:</b>	IgG

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**Immunogen Information**

**Background:** Mitochondrial protein responsible for thermogenic respiration, a specialized capacity of brown adipose tissue and beige fat that participates in non-shivering adaptive thermogenesis to temperature and diet variations and more generally to the regulation of energy balance. Functions as a long-chain fatty acid/LCFA and proton symporter, simultaneously transporting one LCFA and one proton through the inner mitochondrial membrane. 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 oxidation into heat instead of ATP. Regulates the production of reactive oxygen species/ROS by mitochondria.

**Recommended Dilution:** WB, 1:500 - 1:1000

**Synonyms:** Mitochondrial brown fat uncoupling protein 1

**Purification Method:** Affinity purification

**Immunogen:** A synthetic peptide corresponding to a sequence within amino acids 100-200 of cattle UCP1 (NP\_001160000.1).

**Storage:** Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH 7.3.