

## Product datasheet for **TA358381**

### UCP1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	<b>Expected reactivity:</b> Human, Rabbit <b>Homology:</b> Human: 100%; Rabbit: 85%
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	34kDa
Gene Name:	uncoupling protein 1
Database Link:	<a href="#">NP_068605</a> <a href="#">Entrez Gene 7350 Human</a> <a href="#">P25874</a>



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**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<sup>+</sup>/OH<sup>-</sup> 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.

**Synonyms:**

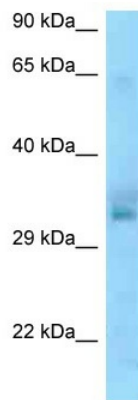
SLC25A7; thermogenin; UCP

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Huntington's disease, PPAR signaling pathway

**Product images:**

WB Suggested Anti-UCP1 Antibody  
Titration: 1.0 ug/ml  
Positive Control: Jurkat Whole Cell