

## UCP3 rabbit pAb

**Cat#: orb766547 (Manual)**

For research use only. Not intended for diagnostic use.

<b>Product Name</b>	UCP3 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human UCP3. AA range:259-308
<b>Specificity</b>	UCP3 Polyclonal Antibody detects endogenous levels of UCP3 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Mitochondrial uncoupling protein 3
<b>Gene Name</b>	UCP3
<b>Cellular localization</b>	Mitochondrion inner membrane ; Multi-pass membrane protein .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

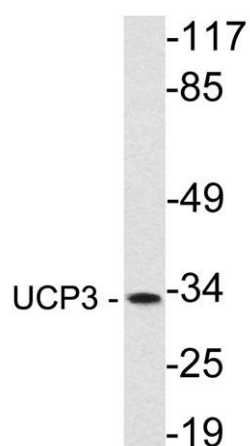
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	33kD
<b>Human Gene ID</b>	7352
<b>Human Swiss-Prot Number</b>	P55916
<b>Alternative Names</b>	UCP3; SLC25A9; Mitochondrial uncoupling protein 3; UCP 3; Solute carrier family 25 member 9

### 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. The different UCPs have tissue-specific expression; this gene is primarily expressed in skeletal muscle. This gene's protein product is postulated to protect mitochondria against lipid-induced oxidative stress. Expression levels of this gene increase when fatty acid supplies to mitochondria exceed their oxidation capacity and the protein enables the export of fatty acids from mitochondria.



**Western Blot analysis of various cells using UCP3 Polyclonal Antibody diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000**



Western blot analysis of lysate from Jurkat cells, using UCP3 antibody.