

## Product Data Sheet: ZO2 /TJP2

Cat. No: AB-81679
Size: 100 ug
Clone: POLY
Concentration: 1mg/ml
Host: Rb

Isotype: IgG

**Immunogen:** A synthetic peptide of human UCP2

**Reactivity:** Hu,Ms,Rt

**Applications:** Western Blot: 1:500 - 1:2000

**Molecular Weight:** 33kDa **Purification:** Aff. Pur.

**Synonyms:** UCP2;BMIQ4;SLC25A8;UCPH

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. 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 in many tissues, with the greatest expression in skeletal muscle. It is thought to play a role in nonshivering thermogenesis, obesity and

diabetes. Chromosomal order is 5'-UCP3-UCP2-3'.

Form: Liquid

**Background:** 

**Buffer:** PBS with 0.02% sodium azide,50% glycerol,pH7.3.

**Storage:** Store at -20°C. Avoid freeze / thaw cycles.