bs-1925R **[Primary Antibody]**

UCP-1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7350 **SWISS:** P25874

Target: UCP-1

Immunogen: KLH conjugated synthetic peptide derived from human UCP-1: 101-200/307.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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+/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].

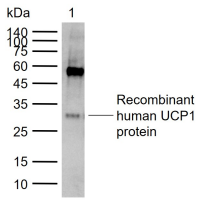
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat)

Predicted MW.: 33 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Recombinant human UCP1 protein, His(bs-42259P) Primary: Anti-UCP-1 (bs-1925R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33 kDa Observed band size: 32 kDa

SELECTED CITATIONS

- **[IF=17.521]** Bingwei Wang. et al. RIIβ-PKA in GABAergic Neurons of Dorsal Median Hypothalamus Governs White Adipose Browning. Advanced Science. 2022 Dec;:2205173 WB ;Mouse. 36529950
- **[IF=8.2]** Xiaoyu Yue. et al. Taraxacum mongolicum polysaccharides promotespromote white adipocyte browning by regulating miR-134-3p via Akt/GSK-3β signalling. INT J BIOL MACROMOL. 2023 Nov;:128296 WB ;Sheep. 38000580
- **[IF=7.577]** Wei C et al. Nanocolloids in drinking water increase the risk of obesity in mice by modulating gut microbesEnviron Int.2021 Jan;146:106302. WB ;Mouse. 33395945
- **[IF=6.706]** Yu Wang. et al. Seabuckthorn Reverses High-Fat-Diet-Induced Obesity and Enhances Fat Browning via

Activation of AMPK/SIRT1 Pathway. NUTRIENTS. 2022 Jan;14(14):2903 WB ;Mouse. 35889860

- **[IF=5.714]** Mingwei Tong. et al. The Trichinella spiralis-derived antigens alleviate HFD-induced obesity and inflammation in mice. INT IMMUNOPHARMACOL. 2023 Apr;117:109924 IHC ;Mouse. 36848791