**UCP2 (D1O5V) Rabbit mAb**

**Store at -20°C**

**#89326**

**Applications**  
- Western  
- IP—Immunoprecipitation  
- IHC—Immunohistochemistry  
- ChIP—Chromatin Immunoprecipitation  
- IF—Immunofluorescence  
- F—Flow cytometry  
- E-P—ELISA-Peptide

**Species Cross-Reactivity**  
- H, M, R, Mk

**Molecular Wt.**  
- 32 kDa

**Isotype**  
- Rabbit IgG**

**IMPORTANT:** For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Background:** Uncoupling protein 2 (UCP2) is a mitochondrial inner membrane transport protein that is expressed in a wide range of tissues (1). UCP2 inhibits mitochondrial glucose oxidation and promotes glycolysis in human pluripotent stem cells (hPSCs) (2). During early differentiation of hPSCs, the expression of UCP2 is repressed, which results in reduced glycolysis (2). This demonstrates a role for UCP2 in the metabolic reprogramming during differentiation of hPSCs (2). Overexpression of UCP2 in cancer cells stimulates oxidative phosphorylation in mitochondria and inhibits cell proliferation (3).

**Specificity/Sensitivity:** UCP2 (D1O5V) Rabbit mAb recognizes endogenous levels of total UCP2 protein.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly153 of human UCP2 protein.

**Background References:**

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at −20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**
- Western blotting 1:1000

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

Western blot analysis of extracts from adipocytes and various cell lines using UCP2 (D1O5V) Rabbit mAb.

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Species Cross-Reactivity: H—human  
M—mouse  
R—rat  
Mk—monkey  
Mi—mink  
C—chicken  
Dm—D. melanogaster  
X—Xenopus  
Z—zebrafish  
B—bovine  
Dg—dog  
Pg—pig  
Sc—S. cerevisiae  
Ce—C. elegans  
Hr—Horse  
**All**—all species expected  
Species enclosed in parentheses are predicted to react based on 100% homology.