

## Carnitine O-palmitoyltransferase (CPT2) monoclonal antibody

Cat. no. A21974

<b>Components:</b>	100 µg monoclonal antibody
<b>Lot no.:</b>	See product label
<b>Clone/PAD:</b>	1C2AE6
<b>Isotype:</b>	Mouse IgG1, κ
<b>Gene ID:</b>	1376
<b>Gene Symbol:</b>	CPT2
<b>Alternative Names:</b>	Carnitine O-palmitoyltransferase 2, mitochondrial, Carnitine palmitoyltransferase II, CPT II, CPT1, CPTASE, CPT2
<b>Concentration:</b>	1 mg/mL in Hepes-Buffered Saline (HBS) with 0.02% sodium azide as a preservative
<b>mAb PURITY:</b>	Near homogeneity as judged by SDS-PAGE. The antibody was produced <i>in vitro</i> using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
<b>Reactivity:</b>	Human, rat, mouse, bovine
<b>Validated Applications:</b>	Immunocytochemistry, Immunoprecipitation, In-Cell ELISA
<b>Suggested Working Concentration:</b>	4 µg/mL for Immunocytochemistry (This is a starting working concentration. The optimal antibody concentration should be determined empirically for each specific application.)
<b>Storage:</b>	Store at 2–8°C. Do not freeze.
<b>Expiration Date:</b>	See product label.

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### Target Background:

CPT2 encodes a nuclear protein targeted to the mitochondrial inner membrane. Together with carnitine palmitoyltransferase I, the encoded protein catalyzes the oxidation of long-chain fatty acids in the mitochondria.

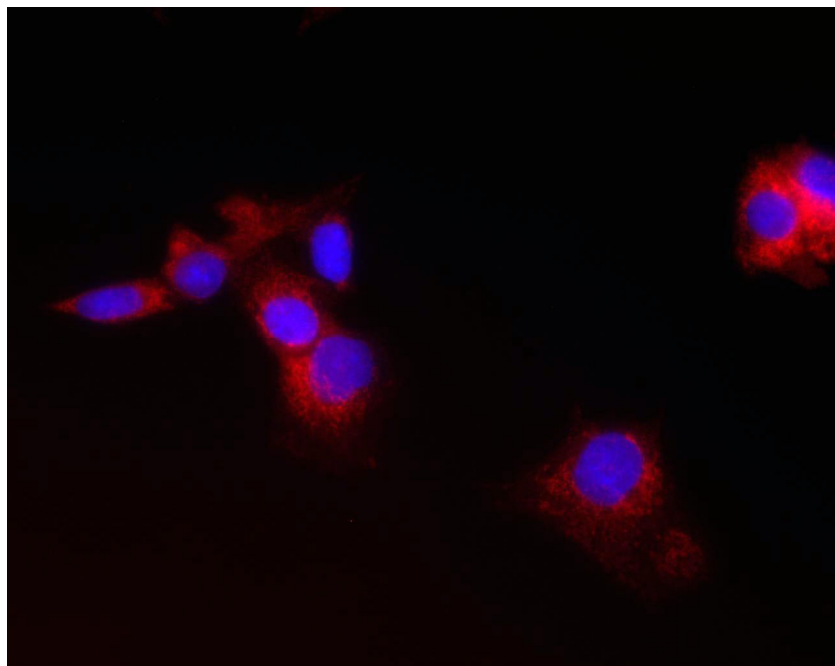


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**Immunocytochemistry image of Carnitine O-palmitoyltransferase (CPT2) monoclonal antibody.**

Human HDFn cells were fixed in 4% paraformaldehyde for 20 minutes and then permeabilized with 0.1% Triton® X-100 for 15 minutes. The cells were incubated with 4 µg/mL of the antibody overnight at 4°C. Alexa Fluor® 594 goat anti-mouse IgG (H+L) was used as a secondary antibody at a 1/1,000 dilution for 1 hour (red). 10% Goat serum was used as the blocking agent for all blocking steps. The cell nuclei were counterstained with DAPI (blue). The target protein locates mainly in mitochondria.

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