

**DATASHEET**

**UCP4 Rabbit Polyclonal Antibody**

CAT. NO. APA16883

**KEY FEATURES**

Target	UCP4	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

Facilitates proton transport across the inner mitochondrial membrane and may dissipate excessive proton gradient associated with oxidative and metabolic stress at neuronal synapses. Regulates glutamate-induced proton conductance in astrocytes, shifting the energy metabolism toward aerobic glycolysis and lactate transfer to neurons for ATP synthesis. Can transport chloride ions with lower efficiency. The transport mechanism remains to be elucidated.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to UCP4
Specificity	Recognizes endogenous levels of UCP4 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human UCP4. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 27; Observed: 36 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	UCP4; Mitochondrial uncoupling protein 4; UCP 4; Solute carrier family 25 member 27
Gene Symbol	SLC25A27
Entrez Gene	9481(Human)
SwissProt	O95847(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

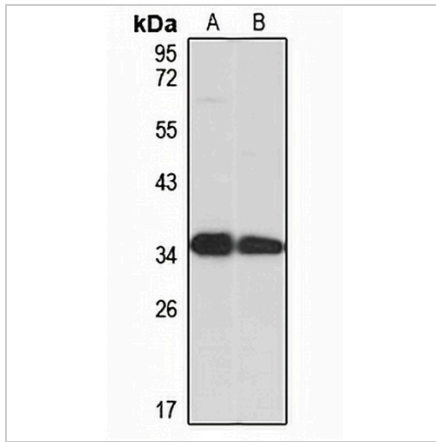
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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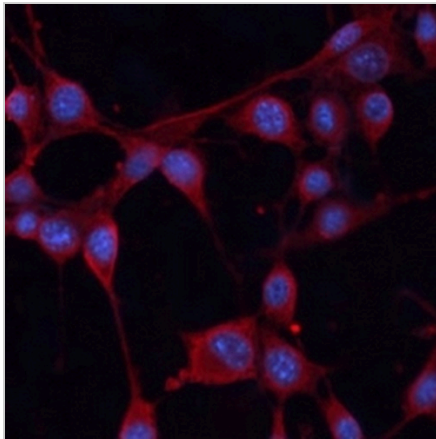
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**DATA**



Western blot analysis of UCP4 expression in mouse brain (A), rat brain (B) whole cell lysates. (Predicted band size: 27; 36 kD; Observed band size: 36 kD)



Immunofluorescent analysis of UCP4 staining in C6 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.