

**SLC25A47 polyclonal antibody**

Catalog: BS34825

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Solute carrier family 25 member 47: Mitochondrial NAD(+) transporter that acts as a 'metabolic gate' in hepatic lipogenesis. Provides NAD(+) substrate to mitochondrial SIRT3 deacetylase and enables its NAD(+)-dependent activities in mitochondrial energy metabolism. This triggers downstream activation of PRKAA1/AMPK-alpha signaling cascade that negatively regulates sterol regulatory element-binding protein (SREBP) transcriptional activities and ATP-consuming lipogenesis to restore cellular energy balance. May transport other mitochondrial metabolites having an aromatic nucleotide and phosphate groups, such as acetyl-CoA. Does not transport amino acids. The transport mechanism remains to be elucidated

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~33.4 kDa

Swiss-Prot:

Q6Q0C1

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of SLC25A47 protein

DATA:

Western blot analysis of OXSR1 expression in HEK293T (A), Jurkat (B), mouse lung (C) whole cell lysates.

Immunofluorescent analysis of OXSR1 staining in VB2 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 AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Note:

For research use only, not for use in diagnostic procedure.

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