

PP2C κ (h): 293T Lysate: sc-114960

BACKGROUND

PP2C κ (protein phosphatase 2C isoform kappa), also known as PP2C-type mitochondrial phosphoprotein phosphatase and PP2C domain-containing protein phosphatase 1K, is a 372 amino acid mitochondrial matrix protein that regulates the opening of mitochondrial membrane permeability transition pores. PP2C κ is essential for cell survival, cardiac function and embryonic development. Knockdown of PP2C κ results in cell death due to loss of mitochondrial membrane potential. PP2C κ specifically binds to the branched-chain- α -ketoacid dehydrogenase (BCKD) complex and induces dephosphorylation of Ser293, effectively leading to the inhibition of branched chain amino acid metabolism. Highest expression of PP2C κ is found in brain, diaphragm and heart. There are three isoforms of PP2C κ that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PPM1K (human) mapping to 4q22.1.

PRODUCT

PP2C κ (h): 293T Lysate represents a lysate of human PP2C κ transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

PP2C κ (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive PP2C κ antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.