



KCNC4 (m): 293T Lysate: sc-121191

BACKGROUND

KCNC4 (potassium voltage-gated channel, shaw-related subfamily, member 4), also known as KV3.4 or KSHIIC, is a 635 amino acid multi-pass membrane protein that belongs to the shaw subfamily of potassium channel proteins. Existing as either a homotetramer or as a heterotetramer with other potassium channel proteins, KCNC4 functions to mediate the voltage-dependent potassium ion permeability of excitable membranes, specifically by forming a channel through which potassium ions may pass in an electrochemical gradient-dependent manner. KCNC4, which is thought to influence neuronal excitability, is subject to phosphorylation on serine residues, an event which inhibits the rapid closure of potassium channels. Multiple isoforms of KCNC4 exist due to alternative splicing events.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: Kcnc4 (mouse) mapping to 3 F2.3.

PRODUCT

KCNC4 (m): 293T Lysate represents a lysate of mouse KCNC4 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

KCNC4 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive KCNC4 antibodies. Recommended use: 10-20 µl per lane.

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

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.