

KCNC3 (N-20): sc-130095

BACKGROUND

KCNC3 (Potassium voltage-gated channel subfamily C member 3) is a multi-pass membrane-bound protein that acts as an ion channel and is generally expressed as a heterotetramer of potassium channeling proteins. The corneal epithelium is an important cell layer that functions to separate the corneal stroma from the anterior chamber of the eye. Increased expression of KCNC3 in confluent corneal endothelial cells suggests that the ionic current maintained by KCNC3 acts to regulate the hydration and transparency of the corneal stroma. Potassium channel regulation is also important for the high-frequency firing of cerebellar neurons. Defects, primarily missense mutations, in the gene encoding the KCNC3 protein have been attributed to neurological developmental disorders and adult onset neurological diseases.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KCNC3 (human) mapping to 19q13.33; Kcnc3 (mouse) mapping to 7 B4.

SOURCE

KCNC3 (N-20) is a purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of KCNC3 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

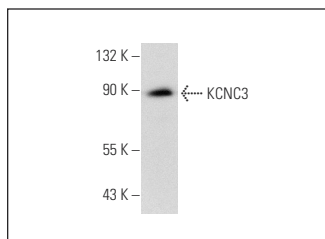
KCNC3 (N-20) is recommended for detection of KCNC3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for KCNC3 siRNA (h): sc-97185, KCNC3 siRNA (m): sc-146356, KCNC3 shRNA Plasmid (h): sc-97185-SH, KCNC3 shRNA Plasmid (m): sc-146356-SH, KCNC3 shRNA (h) Lentiviral Particles: sc-97185-V and KCNC3 shRNA (m) Lentiviral Particles: sc-146356-V.

Molecular Weight of KCNC3: 81 kDa.

Positive Controls: Y79 cell lysate: sc-2240 or NIH/3T3 whole cell lysate: sc-2210.

DATA



KCNC3 (N-20): sc-130095. Western blot analysis of KCNC3 expression in Y79 whole cell lysate.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

MONOS
Satisfaction
Guaranteed

Try **KCNC3 (D-4): sc-398047**, our highly recommended monoclonal alternative to KCNC3 (N-20).