

SLC12A9 (G-15): sc-160799

BACKGROUND

SLC12A9 (solute carrier family 12 member 9), also known as CIP1 (cation-chloride cotransporter-interacting protein 1), potassium-chloride transporter 9 or cation-chloride cotransporter 6 (CCC6), is a 914 amino acid member of the SLC12A transporter protein family. Localized to the cell membrane, SLC12A9 may act as an inhibitor of NKCC1. SLC12A9 is thought to be a subunit of a multimeric transport system, indicating that additional subunits may be required for protein function. SLC12A9 is a multi-pass membrane protein expressed at high levels in brain, kidney and placenta and at lower levels in heart, liver and lung. SLC12A9 is expressed as three isoforms produced by alternative splicing events and is encoded by a gene mapping to human chromosome 7.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SLC12A9 (human) mapping to 7q22.1; Slc12a9 (mouse) mapping to 5 G2.

SOURCE

SLC12A9 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of SLC12A9 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160799 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SLC12A9 (G-15) is recommended for detection of SLC12A9 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with SLC12A8.

SLC12A9 (G-15) is also recommended for detection of SLC12A9 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SLC12A9 siRNA (h): sc-89870, SLC12A9 siRNA (m): sc-153490, SLC12A9 shRNA Plasmid (h): sc-89870-SH, SLC12A9 shRNA Plasmid (m): sc-153490-SH, SLC12A9 shRNA (h) Lentiviral Particles: sc-89870-V and SLC12A9 shRNA (m) Lentiviral Particles: sc-153490-V.

Molecular Weight of SLC12A9: 96 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

PROTOCOLS

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