

SLC26A3 (C-20): sc-34939

BACKGROUND

The SLC26 family comprises sulfate/anion transporter genes. SLC26 family members are well conserved in their genomic (number and size of exons) and protein (amino acid length among species) structures, yet have markedly different tissue expression patterns. Members of the SLC26 family can mediate the electroneutral exchange of Cl⁻ for HCO⁻³ across the plasma membrane of mammalian cells. Family members include SLC26A3 (also designated down-regulated in adenoma), Pendrin (SLC26A4), Prestin (SLC26A5) and SLC26A6. SLC26A3 is a chloride/bicarbonate exchanger which is involved in absorption in the colon. SLC26A3 interacts with PDZK1 and helps mediate electrolyte and fluid absorption. Defects in SLC26A3 are the cause of congenital chloride diarrhea.

REFERENCES

- Hoglund, P., et al. 1998. Clustering of private mutations in the congenital chloride diarrhea/downregulated in adenoma gene. *Hum. Mutat.* 11: 321-327.
- Hoglund, P., et al. 2001. Identification of seven novel mutations including the first two genomic rearrangements in SLC26A3 mutated in congenital chloride diarrhea. *Hum. Mutat.* 18: 233-242.

CHROMOSOMAL LOCATION

Genetic locus: SLC26A3 (human) mapping to 7q31.1; Slc26a3 (mouse) mapping to 12 A3.

SOURCE

SLC26A3 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of SLC26A3 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-34939 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SLC26A3 (C-20) is recommended for detection of SLC26A3 (also designated Down-Regulated in Adenoma) 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SLC26A3 siRNA (h): sc-45543, SLC26A3 siRNA (m): sc-45544, SLC26A3 shRNA Plasmid (h): sc-45543-SH, SLC26A3 shRNA Plasmid (m): sc-45544-SH, SLC26A3 shRNA (h) Lentiviral Particles: sc-45543-V and SLC26A3 shRNA (m) Lentiviral Particles: sc-45544-V.

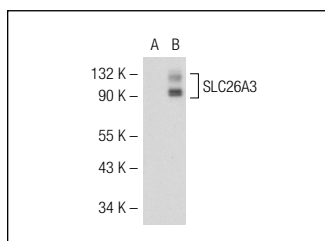
Molecular Weight of SLC26A3: 85 kDa.

Positive Controls: SLC26A3 (h): 293T Lysate: sc-114083.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



SLC26A3 (C-20): sc-34939. Western blot analysis of SLC26A3 expression in non-transfected: sc-117752 (A) and human SLC26A3 transfected: sc-114083 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Choi, L.J., Jenikova, G., Hanson, E., Spehlmann, M.E., Boehling, N.S., Kirstein, S.L., Bunday, R.A., Smith, J.R., Insel, P.A. and Eckmann, L. 2010. Coordinate down-regulation of adenylyl cyclase isoforms and the stimulatory G protein G_s in intestinal epithelial cell differentiation. *J. Biol. Chem.* 285: 12504-12511.

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.


 MONOS
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Try **SLC26A3 (H-8): sc-376187**, our highly recommended monoclonal alternative to SLC26A3 (C-20).