

SLC26A3 (h): 293T Lysate: sc-114083

BACKGROUND

The SLC26 family comprises sulfate/anion transporter genes. SLC26 family members are well conserved in both their genomic and protein 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 downregulated in adenoma), Pendrin (SLC26A4), Prestin (SLC26A5) and SLC26A6. SLC26A3 is a chloride/bicarbonate exchanger, 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

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- Höglund, P., Sormaala, M., Haila, S., Socha, J., Rajaram, U., Scheurlen, W., Sinaasappel, M., de Jonge, H., Holmberg, C., Yoshikawa, H. and Kere, J. 2001. Identification of seven novel mutations including the first two genomic rearrangements in SLC26A3 mutated in congenital chloride diarrhea. *Hum. Mutat.* 18: 233-242.
- Makela, S., Kere, J., Holmberg, C. and Höglund, P. 2002. SLC26A3 mutations in congenital chloride diarrhea. *Hum. Mutat.* 20: 425-438.
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CHROMOSOMAL LOCATION

Genetic locus: SLC26A3 (human) mapping to 7q31.1.

PRODUCT

SLC26A3 (h): 293T Lysate represents a lysate of human SLC26A3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

SLC26A3 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive SLC26A3 antibodies. Recommended use: 10-20 µl per lane.

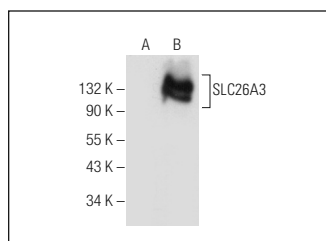
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SLC26A3 (H-8): sc-376187 is recommended as a positive control antibody for Western Blot analysis of enhanced human SLC26A3 expression in SLC26A3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



SLC26A3 (H-8): sc-376187. Western blot analysis of SLC26A3 expression in non-transfected: sc-117752 (A) and human SLC26A3 transfected: sc-114083 (B) 293T whole cell lysates.

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.