

# SLC26A6 (C-17): sc-26728

## BACKGROUND

SLC26A6 (solute carrier family 26, member 6), also known as Pendrin-like protein 1, is a member of a family of sulfate/anion transporter genes. 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<sup>-</sup> for HCO<sub>3</sub><sup>-</sup> across the plasma membrane of mammalian cells. Isoforms of SLC26A6 mediate anion transport and have functional PDZ interaction domains. The gene encoding SLC26A6 undergoes alternative splicing to produce three different isoforms. The human SLC26A6 gene maps to chromosome 3p21.31 and encodes a predicted 738 amino acid transmembrane protein, which is most abundantly expressed in the kidney and pancreas. Pancreatic ductal cell lines Capan-1 and Capan-2 express SLC26A6, which is localized to the apical surface of pancreatic ductal cells.

## CHROMOSOMAL LOCATION

Genetic locus: SLC26A6 (human) mapping to 3p21.31; Slc26a6 (mouse) mapping to 9 F2.

## SOURCE

SLC26A6 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SLC26A6 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-26728 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

SLC26A6 (C-17) is recommended for detection of SLC26A6 isoforms a, b and c 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).

SLC26A6 (C-17) is also recommended for detection of SLC26A6 isoforms a, b and c in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for SLC26A6 siRNA (h): sc-106553, SLC26A6 siRNA (m): sc-108024, SLC26A6 shRNA Plasmid (h): sc-106553-SH, SLC26A6 shRNA Plasmid (m): sc-108024-SH, SLC26A6 shRNA (h) Lentiviral Particles: sc-106553-V and SLC26A6 shRNA (m) Lentiviral Particles: sc-108024-V.

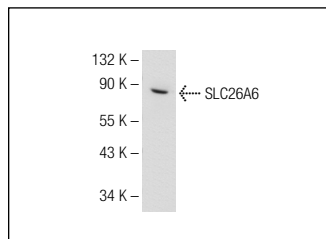
Molecular Weight of SLC26A6: 90 kDa.

Positive Controls: Raji whole cell lysate: sc-364236.

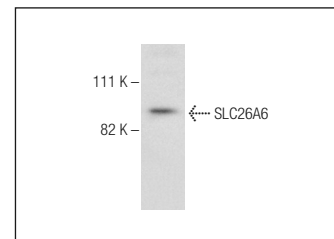
## RECOMMENDED SECONDARY REAGENTS

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



SLC26A6 (C-17): sc-26728. Western blot analysis of SLC26A6 expression in 293T whole cell lysate.



SLC26A6 (C-17): sc-26728. Western blot analysis of SLC26A6 expression in Raji whole cell lysate.

## SELECT PRODUCT CITATIONS

- Pierucci-Alves, F., et al. 2011. Swine models of cystic fibrosis reveal male reproductive tract phenotype at birth. *Biol. Reprod.* 85: 442-451.
- Chávez, J.C., et al. 2011. Participation of the Cl<sup>-</sup>/HCO<sub>3</sub><sup>-</sup> exchangers SLC26A3 and SLC26A6, the Cl<sup>-</sup> channel CFTR and the regulatory factor SLC9A3R1 in mouse sperm capacitation. *Biol. Reprod.* 86: 1-14.
- Hassan, H.A., et al. 2011. Cholinergic signaling inhibits oxalate transport by human intestinal T84 cells. *Am. J. Physiol., Cell Physiol.* 302: C46-C58.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **SLC26A6 (F-5): sc-515230**, our highly recommended monoclonal alternative to SLC26A6 (C-17).