

# SLC26A6 (E-21): sc-26735

## 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  $\text{Cl}^-$  for  $\text{HCO}_3^-$  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.

## REFERENCES

- Lohi, H., Kujala, M., Kerkela, E., Saarialho-Kere, U., Kestila, M. and Kere, J. 2000. Mapping of five new putative anion transporter genes in human and characterization of SLC26A6, a candidate gene for pancreatic anion exchanger. *Genomics* 70: 102-112.
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- Wang, Z., Petrovic, S., Mann, E. and Soleimani, M. 2002. Identification of an apical  $\text{Cl}^-/\text{HCO}_3^-$  exchanger in the small intestine. *Am. J. Physiol. Gastrointest. Liver Physiol.* 282: G573-579.
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- LocusLink Report (LocusID: 65010). <http://www.ncbi.nlm.nih.gov/LocusLink/>

## CHROMOSOMAL LOCATION

Genetic locus: Slc26a6 (mouse) mapping to 9 F2.

## SOURCE

SLC26A6 (E-21) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SLC26A6 of mouse origin.

## PRODUCT

Each vial contains 200  $\mu\text{g}$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-26735 P, (100  $\mu\text{g}$  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 (E-21) is recommended for detection of SLC26A6 isoforms a, b and c of mouse and rat 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).

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

Molecular Weight of SLC26A6: 90 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.

## 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 (E-21).