

# SLC26A7 (N-14): sc-98134

## BACKGROUND

SLC26A7 (solute carrier family 26, member 7) is a 656 amino acid multi-pass membrane protein that belongs to the SLC26 family of sulfate/anion transporter proteins. Members of this family are structurally well conserved, yet they have markedly different tissue expression patterns. SLC26 family members can mediate the electroneutral exchange of Cl<sup>-</sup> for HCO<sub>3</sub><sup>-</sup> across the plasma membrane of mammalian cells. SLC26A7 shares 30% identity with SLC26A2. SLC26A7 is predicted to contain 12 transmembrane regions with internal N- and C-termini. Playing a major role in gastric acid secretion, SLC26A7 is active at both alkaline and acidic pH. Expressed in the cytoplasm in recycling endosomes of medullary collecting duct cells and in acid-secreting gastric parietal cells, SLC26A7 is targeted to the basolateral membrane in hypertonicity and potassium depletion. Existing as two alternatively spliced isoforms, the SLC26A7 gene is conserved in canine, bovine, mouse, rat, chicken and *A. thaliana*, and maps to human chromosome 8q21.3.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SLC26A7 (human) mapping to 8q21.3; Slc26a7 (mouse) mapping to 4 A1.

## SOURCE

SLC26A7 (N-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of SLC26A7 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-98134 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SLC26A7 (N-14) is recommended for detection of SLC26A7 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).

SLC26A7 (N-14) is also recommended for detection of SLC26A7 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for SLC26A7 siRNA (h): sc-72023, SLC26A7 siRNA (m): sc-72024, SLC26A7 shRNA Plasmid (h): sc-72023-SH, SLC26A7 shRNA Plasmid (m): sc-72024-SH, SLC26A7 shRNA (h) Lentiviral Particles: sc-72023-V and SLC26A7 shRNA (m) Lentiviral Particles: sc-72024-V.

Molecular Weight of SLC26A7 isoforms 1/2: 72/73 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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](http://www.scbt.com) or our catalog for detailed protocols and support products.