

# SLC26A11 (T-12): sc-136883

## BACKGROUND

SLC26A11 (solute carrier family 26, member 11) is a 606 amino acid multi-pass membrane protein that belongs to the SLC26A/SuIP transporter family. Containing one STAS domain, the SLC26A11 protein exhibits sodium-independent sulfate anion transporter activity that may cooperate with SLC26A2 to mediate DIDS-sensitive sulfate uptake into high endothelial venules endothelial cells (HEVEC). SLC26A11 is detected in all tissues tested with highest expression observed in brain, kidney, HEVEC and placenta and lowest in pancreas, skeletal muscle, liver, lung and heart. Containing 18 exons, the SLC26A11 gene is conserved in chimpanzee, canine, bovine, mouse, rat, zebrafish, mosquito, *S. pombe*, *S. cerevisiae*, *K. lactis*, *E. gossypii*, *M. grisea* and *N. crassa*, and maps to human chromosome 17q25.3. Chromosome 17 makes up over 2.5% of the human genome with about 81 million bases encoding over 1,200 genes.

## REFERENCES

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- Vincourt, J.B., et al. 2003. Molecular and functional characterization of SLC26A11, a sodium-independent sulfate transporter from high endothelial venules. *FASEB J.* 17: 890-892.
- Soleimani, M., et al. 2006. SLC26 chloride/base exchangers in the kidney in health and disease. *Semin. Nephrol.* 26: 375-385.
- Online Mendelian Inheritance in Man, OMIM™. 2006. Johns Hopkins University, Baltimore, MD. MIM Number: 610117. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Sindi, A., et al. 2007. Renal physiology of SLC26 anion exchangers. *Curr. Opin. Nephrol. Hypertens.* 16: 484-490.
- Suela, J., et al. 2007. Neurofibromatosis 1, and Not TP53, seems to be the main target of chromosome 17 deletions in *de novo* acute myeloid leukemia. *J. Clin. Oncol.* 25: 1151-1152.

## CHROMOSOMAL LOCATION

Genetic locus: SLC26A11 (human) mapping to 17q25.3.

## SOURCE

SLC26A11 (T-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of SLC26A11 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-136883 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

SLC26A11 (T-12) is recommended for detection of SLC26A11 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other SLC26A family members.

SLC26A11 (T-12) is also recommended for detection of SLC26A11 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for SLC26A11 siRNA (h): sc-94012, SLC26A11 shRNA Plasmid (h): sc-94012-SH and SLC26A11 shRNA (h) Lentiviral Particles: sc-94012-V.

Molecular Weight of SLC26A11: 65 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.

## PROTOCOLS

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