

# SLC26A2 (K-16): sc-163378

## BACKGROUND

The SLC26 family is comprised of sulfate/anion transporters that 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<sup>-</sup> for HCO<sub>3</sub><sup>-</sup> across the plasma membrane of mammalian cells. SLC26A2 (solute carrier family 26, member 2), also known as DTD, EDM4, DTDST, MST153, D5S1708 or MSTP157, is a 739 amino acid diastrophic dysplasia sulfate transporter belonging to the SLC26A/SulP transporter family. Ubiquitously expressed, SLC26A2 may play a role in endochondral bone formation. SLC26A2 is a transmembrane glycoprotein implicated in the pathogenesis of several human chondrodysplasias and is critical for sulfation of proteoglycans and matrix organization in cartilage.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SLC26A2 (human) mapping to 5q32; Slc26a2 (mouse) mapping to 18 E1.

## SOURCE

SLC26A2 (K-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of SLC26A2 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-163378 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SLC26A2 (K-16) is recommended for detection of SLC26A2 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); non cross-reactive with other SLC26A family members.

SLC26A2 (K-16) is also recommended for detection of SLC26A2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for SLC26A2 siRNA (h): sc-91907, SLC26A2 siRNA (m): sc-153525, SLC26A2 shRNA Plasmid (h): sc-91907-SH, SLC26A2 shRNA Plasmid (m): sc-153525-SH, SLC26A2 shRNA (h) Lentiviral Particles: sc-91907-V and SLC26A2 shRNA (m) Lentiviral Particles: sc-153525-V.

Molecular Weight of SLC26A2: 82 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.

## 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.