SLC22A12 (M-14): sc-162199

**BACKGROUND**

SLC22A12 (solute carrier family 22 (organic anion/urate transporter), member 12), also known as RST, OAT4L or URAT1 (urate transporter-1), is a 553 amino acid multi-pass membrane protein belonging to the major facilitator superfamily and the organic cation transporter family. Expressed in epithelial cells of proximal tubules in renal cortex, SLC22A12 is required for efficient urate re-absorption in the kidney, thereby regulating blood urate levels and mediating saturable urate uptake by facilitating the exchange of urate against organic anions. Defects in the SLC22A12 gene leads to renal hypouricemia (RH), an inherited disorder characterized by impaired tubular uric acid transport. Individuals affected with RH have low serum urate levels due to defects in renal urate re-absorption and high urinary urate excretion. SLC22A12 has three consensus sequences for N-glycosylation and two cyclic AMP-dependent protein kinase phosphorylation sites.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: Slc22a12 (mouse) mapping to 19 A.

**SOURCE**

SLC22A12 (M-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of SLC22A12 of mouse 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-162199 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

SLC22A12 (M-14) is recommended for detection of SLC22A12 of mouse 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 SLC22A family members.

Suitable for use as control antibody for SLC22A12 siRNA (m): sc-153497, SLC22A12 shRNA Plasmid (m): sc-153497-SH and SLC22A12 shRNA (m) Lentiviral Particles: sc-153497-V.

**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-24941. 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.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.