

SLC22A24 (S-16): sc-244150

BACKGROUND

SLC22A24 is a 322 amino acid multi-pass membrane protein that belongs to the major facilitator superfamily and the organic cation transporter family. The SLC22A24 protein has 12 putative transmembrane domains. SLC22A24 belongs to a large family of transmembrane proteins that function as uniporters, symporters, and antiporters to transport organic ions across cell membranes. Rat SLC22A24 has been detected with high expression in liver and skeletal muscle and in coronal sections taken from the olfactory bulb and forebrain. Expression of SLC22A24 is weaker in other cortical sections, and none has been detected in other specific brain regions or in peripheral tissues. The SLC22A24 gene maps to human chromosome 11q12.3 and the mouse SLC22A24 gene maps to chromosome 19qA. Chromosome 9 consists of about 145 million bases and 4% of the human genome and encodes nearly 900 genes.

REFERENCES

1. Koepsell, H. 1998. Organic cation transporters in intestine, kidney, liver, and brain. *Annu. Rev. Physiol.* 60: 243-266.
2. Saier, M.H., et al. 1999. The major facilitator superfamily. *J. Mol. Microbiol. Biotechnol.* 1: 257-279.
3. Humphray, S.J., et al. 2004. DNA sequence and analysis of human chromosome 9. *Nature* 429: 369-374.
4. Rual, J.F., et al. 2005. Towards a proteome-scale map of the human protein-protein interaction network. *Nature* 437: 1173-1178.
5. Jacobsson, J.A., et al. 2007. Identification of six putative human transporters with structural similarity to the drug transporter SLC22 family. *Genomics* 90: 595-609.
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CHROMOSOMAL LOCATION

Genetic locus: SLC22A24 (human) mapping to 11q12.3.

SOURCE

SLC22A24 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SLC22A24 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-244150 P, (100 µg 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

SLC22A24 (S-16) is recommended for detection of SLC22A24 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

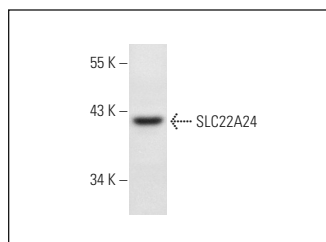
Molecular Weight of SLC22A24: 36 kDa.

Positive Controls: U-251-MG whole cell lysate.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



SLC22A24 (S-16): sc-244150. Western blot analysis of SLC22A24 expression in U-251-MG whole cell lysate.

RESEARCH USE

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

PROTOCOLS

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