



SLC17A2 (D-24): sc-102106

BACKGROUND

SLC17A2 (solute carrier family 17 member 2), also known as NPT3 (Na⁺/PI co-transporter 3), is a 439 amino acid multi-pass membrane protein that belongs to the sodium/anion co-transporter family of the major facilitator superfamily. Expressed in the spleen, small intestine, testis and kidney, SLC17A2 is involved in active transport of phosphate into cells through a sodium/phosphate co-transport system. SLC17A2 contains four transmembrane domains and the gene encoding SLC17A2 localizes to the region of chromosome 6 that is associated with hereditary hemochromatosis (HFE or HH). HFE is a condition characterized by cirrhosis of the liver, hypermelanotic pigmentation of the skin, diabetes and heart failure. Due to alternative splicing events, two SLC17A2 isoforms exist.

REFERENCES

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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 or our catalog for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: SLC17A2 (human) mapping to 6p22.2.

SOURCE

SLC17A2 (D-24) is a purified rabbit polyclonal antibody raised against SLC17A2 of human origin.

PRODUCT

Each vial contains 50 μ g IgG in 500 μ l PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

SLC17A2 (D-24) is recommended for detection of SLC17A2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SLC17A2 siRNA (h): sc-95254, SLC17A2 shRNA Plasmid (h): sc-95254-SH and SLC17A2 shRNA (h) Lentiviral Particles: sc-95254-V.

Molecular Weight of SLC17A2: 47 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

RESEARCH USE

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