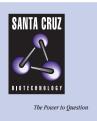
# SANTA CRUZ BIOTECHNOLOGY, INC.

# SLC17A2 (D-24): sc-102106



# BACKGROUND

SLC17A2 (solute carrier family 17 member 2), also known as NPT3 (Na<sup>+</sup>/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, \*\*D0 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  $\mu g$  IgG in 500  $\mu I$  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 µg per 100-500 µg 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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941. 4) Immuno-histochemistry: use ImmunoCruz<sup>™</sup>: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

#### **RESEARCH USE**

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