# SANTA CRUZ BIOTECHNOLOGY, INC.

# CNT1 (M-70): sc-134564



BACKGROUND

Nucleosides play a role in signaling in several physiologic systems, and synthetic analogs of natural nucleosides are often used to treat neoplastic and viral diseases. Plasma membrane transport of nucleosides is mediated by equilibrative and concentrative nucleoside transporters, which may have specificity for purines or pyrimidines. The deduced human 650 amino acid concentrative nucleoside transporter 1 (CNT1) protein is 83% identical to the rat protein and is expressed in the intestine, kidney and liver. CNT1, also designated solute carrier family 28 (sodium-coupled nucleoside transporter), member 1 (SLC28A1), expedites sodium-dependent fluxes of uridine, azidodeoxythymidine (AZT) and adenosine, but not of guanosine or deoxyadenosine, which undergo net renal secretion. CNT1 activity may serve as a putative mechanism for renal reabsorption of physiologic nucleosides and synthetic nucleoside drugs.

#### REFERENCES

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#### CHROMOSOMAL LOCATION

Genetic locus: Slc28a1 (mouse) mapping to 7 D3.

#### **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.

## SOURCE

CNT1 (M-70) is a rabbit polyclonal antibody raised against amino acids 1-70 mapping at the N-terminus of CNT1 of mouse origin.

#### PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### **APPLICATIONS**

CNT1 (M-70) is recommended for detection of CNT1 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

Suitable for use as control antibody for CNT1 siRNA (m): sc-60422, CNT1 shRNA Plasmid (m): sc-60422-SH and CNT1 shRNA (m) Lentiviral Particles: sc-60422-V.

Molecular Weight of CNT1: 72 kDa.

### **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.

# **RESEARCH USE**

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