

# CNT3 (H-44): sc-134529

## BACKGROUND

The concentrative nucleoside transporter (CNT) protein family comprises three members: CNT1, CNT2 and CNT3. This family regulates multiple cellular processes, including neurotransmission, vascular tone and adenosine concentration in the vicinity of cell surface receptors. CNT3 plays an important role in mediating the cellular entry and metabolism of purine and pyrimidine nucleosides and a variety of synthetic antiviral and anticancer nucleoside analog drugs. Electrostatic interaction is the force that drives CNT3 transport. Specifically, CNT3 couples active nucleoside transport with passive sodium and proton transport.

## REFERENCES

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2. Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608269. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Kato, R., et al. 2005. Nucleoside transport at the blood-testis barrier studied with primary-cultured sertoli cells. *J. Pharmacol. Exp. Ther.* 312: 601-608.
4. Rodriguez-Mulero, S., et al. 2005. Expression of concentrative nucleoside transporters SLC28 (CNT1, CNT2 and CNT3) along the rat nephron: effect of diabetes. *Kidney Int.* 68: 665-672.
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6. Aymerich, I., et al. 2005. The concentrative nucleoside transporter family (SLC28): new roles beyond salvage? *Biochem. Soc. Trans.* 33: 216-219.
7. Damaraju, S., et al. 2005. Identification and functional characterization of variants in human concentrative nucleoside transporter 3, hcCNT3 (SLC28A3), arising from single nucleotide polymorphisms in coding regions of the hcCNT3 gene. *Pharmacogenet. Genomics* 15: 173-182.
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## CHROMOSOMAL LOCATION

Genetic locus: SLC28A3 (human) mapping to 9q21.32; Slc28a3 (mouse) mapping to 13 B1.

## SOURCE

CNT3 (H-44) is a rabbit polyclonal antibody raised against amino acids 203-246 mapping within an internal region of CNT3 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.

## APPLICATIONS

CNT3 (H-44) is recommended for detection of CNT3 of mouse, rat and 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).

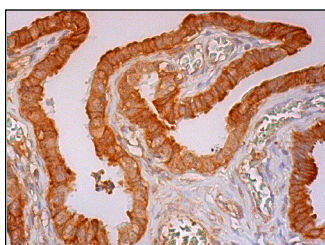
Suitable for use as control antibody for CNT3 siRNA (h): sc-60425, CNT3 siRNA (m): sc-60426, CNT3 shRNA Plasmid (h): sc-60425-SH, CNT3 shRNA Plasmid (m): sc-60426-SH, CNT3 shRNA (h) Lentiviral Particles: sc-60425-V and CNT3 shRNA (m) Lentiviral Particles: sc-60426-V.

Molecular Weight of CNT3: 77 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. 4) Immunohistochemistry: use ImmunoCruz<sup>™</sup>: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



CNT3 (H-44): sc-134529. Immunoperoxidase staining of formalin fixed, paraffin-embedded human fallopian tube tissue showing membrane and cytoplasmic staining of glandular cells.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

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