

CNT1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51864**Specification**

CNT1 Antibody - Product Information

Application	WB, E
Primary Accession	O00337
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71 KDa

CNT1 Antibody - Additional Information**Gene ID** 9154**Other Names**

Sodium/nucleoside cotransporter 1, Concentrative nucleoside transporter 1, CNT 1, hCNT1, Na(+)/nucleoside cotransporter 1, Sodium-coupled nucleoside transporter 1, Solute carrier family 28 member 1, SLC28A1, CNT1

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C.Stable for 12 months from date of receipt

CNT1 Antibody - Protein Information**Name** SLC28A1 ([HGNC:11001](#))**Function**

Sodium and pyrimidine nucleoside symporter of the plasma membrane that imports uridine, thymidine and cytidine into cells by coupling their transport to the transmembrane sodium electrochemical gradient. Also transports adenosine, an atypical substrate transported with high apparent affinity, but low maximum velocity. Therefore, exhibits the transport characteristics of the nucleoside transport system cit or N2 subtype (N2/cit) (PubMed:10455109, PubMed:14701834, PubMed:15194733, PubMed:21795683, PubMed:21998139, PubMed:30658162, PubMed:32126230, PubMed:9124315). Involved in renal nucleoside (re)absorption (PubMed:30658162).

Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q62674}. Apical cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q62674}

Tissue Location

Expressed in kidney..

CNT1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CNT1 Antibody - Images

CNT1 Antibody - Background

Sodium-dependent and pyrimidine-selective. Exhibits the transport characteristics of the nucleoside transport system cit or N2 subtype (N2/cit) (selective for pyrimidine nucleosides and adenosine). It also transports the antiviral pyrimidine nucleoside analogs 3'-azido-3'-deoxythymidine (AZT) and 2',3'-dideoxycytidine (ddC). It may be involved in the intestinal absorption and renal handling of pyrimidine nucleoside analogs used to treat acquired immunodeficiency syndrome (AIDS). It has the following selective inhibition: adenosine, thymidine, cytidine, uridine >> guanosine, inosine.

CNT1 Antibody - References

Ritzel M.W.L.,et al.Am. J. Physiol. 272:C707-C714(1997).
Ritzel M.W.L.,et al.Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:671-675(2006).
Loewen S.K.,et al.J. Biol. Chem. 274:24475-24484(1999).