

CTNS Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55022**Specification****CTNS Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	O60931
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41738

CTNS Polyclonal Antibody - Additional Information**Gene ID** 1497**Other Names**

Cystinosin, CTNS {ECO:0000303|PubMed:9537412, ECO:0000312|HGNC:HGNC:2518}

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

CTNS Polyclonal Antibody - Protein Information**Name** CTNS {ECO:0000303|PubMed:9537412, ECO:0000312|HGNC:HGNC:2518}**Function**

Cystine/H(+) symporter that mediates export of cystine, the oxidized dimer of cysteine, from lysosomes (PubMed: 11689434, PubMed: 15128704, PubMed: 18337546, PubMed: 22232659, PubMed: 29467429, PubMed: 33208952, PubMed: 36113465). Plays an important role in melanin synthesis by catalyzing

cystine export from melanosomes, possibly by inhibiting pheomelanin synthesis (PubMed:22649030). In addition to cystine export, also acts as a positive regulator of mTORC1 signaling in kidney proximal tubular cells, via interactions with components of the v-ATPase and Ragulator complexes (PubMed:36113465). Also involved in small GTPase-regulated vesicle trafficking and lysosomal localization of LAMP2A, independently of cystine transporter activity (By similarity).

Cellular Location

[Isoform 1]: Lysosome membrane; Multi-pass membrane protein. Melanosome membrane; Multi-pass membrane protein. Note=AP-3 complex is required for localization to the lysosome.

Tissue Location

Strongly expressed in pancreas, kidney (adult and fetal), skeletal muscle, melanocytes and keratinocytes (PubMed:22649030). Expressed at lower levels in placenta and heart Weakly expressed in lung, liver and brain (adult and fetal) (PubMed:22649030).

CTNS Polyclonal 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](#)

CTNS Polyclonal Antibody - Images