10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Ctns Antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI12496

Product Information

Application	WB
Primary Accession	P57757
Other Accession	NM_031251, NP_112541
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42203

Additional Information

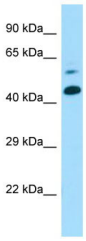
Gene ID	83429
Alias Symbol	AI195360, AW049661
Other Names	Cystinosin, Ctns
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Ctns antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Ctns Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Ctns {ECO:0000303|PubMed:11121245, ECO:0000312|MGI:MGI:1932872}
Function	Cystine/H(+) symporter that mediates export of cystine, the oxidized dimer of cysteine, from lysosomes (PubMed:12370309). 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:26449607). Also involved in small GTPase-regulated vesicle trafficking and lysosomal localization of LAMP2A, independently of cystine transporter activity (PubMed:28465352).
Cellular Location	Lysosome membrane; Multi-pass membrane protein. Melanosome

membrane {ECO:0000250|UniProtKB:O60931}; Multi-pass membrane protein. Note=AP-3 complex is required for localization to the lysosome. {ECO:0000250|UniProtKB:O60931}

Images



Host: Rabbit
Target Name: Ctns
Sample Tissue: Mouse Lung lysates
Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.