

DATASHEET

Cystinosin Rabbit Polyclonal Antibody

CAT. NO. APA14590

KEY FEATURES

Target	Cystinosin	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Cystine/H(+) symporter that mediates export of cystine, the oxidized dimer of cysteine, from lysosomes symporter that mediates export of cystine, the oxidized dimer of cysteine, from lysosomes . Plays an important role in melanin synthesis by catalyzing cystine export from melanosomes, possibly by inhibiting pheomelanin synthesis . 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 Regulator complexes . Also involved in small GTPase-regulated vesicle trafficking and lysosomal localization of LAMP2A, independently of cystine transporter activity .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to Cystinosin
Specificity	Recognizes endogenous levels of Cystinosin protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human Cystinosin
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 41; Observed: 42 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Cystinosin
Gene Symbol	CTNS
Entrez Gene	1497(Human); 83429(Mouse)
SwissProt	O60931(Human); P57757(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

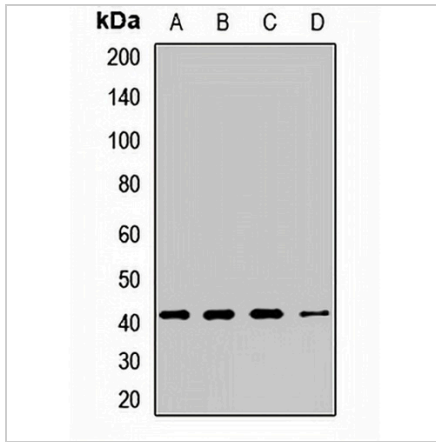
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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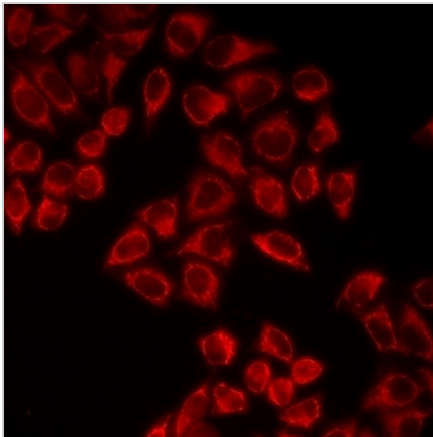
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Western blot analysis of Cystinosin expression in HeLa (A), HepG2 (B), mouse kidney (C), rat kidney (D) whole cell lysates. (Predicted band size: 41; 45 kD; Observed band size: 42 kD)



Immunofluorescent analysis of Cystinosin staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.