DATASHEET

SLC22A12 Mouse Monoclonal Antibody(C2963)

CAT. NO. AMA02575

KEY FEATURES

Target	SLC22A12	Source / Host	Mouse
Reactivity	Human, Mouse	Clonality	Monoclonal
Applications	WB, IHC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Electroneutral antiporter that translocates urate across the apical membrane of proximal tubular cells in exchange for monovalent organic or inorganic anions . Involved in renal reabsorption of urate and helps maintaining blood levels of uric acid . Mediates urate uptake by an exchange with organic anions such as (S)-lactate and nicotinate, and inorganic anion Cl(-) . Other inorganic anions such as Br(-), I(-) and NO3(-) may also act as counteranions that exchange for urate . Also mediates orotate tubular uptake coupled with nicotinate efflux and to a lesser extent with lactate efflux, therefore displaying a potential role in orotate renal reabsorption . Orotate transport is Cl(-)-dependent .

APPLICATION

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

WB	1:500 - 1:1000
IHC	1:100 - 1:500
FC	1:100 - 1:200

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

PRODUCT OVERVIEW

Description	Mouse monoclonal to SLC22A12
Specificity	Recognizes endogenous levels of SLC22A12 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human SLC22A12 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 60 kD; Observed: 56 kD kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	OATL4; URAT1; Solute carrier family 22 member 12; OrganIC, anion transporter 4-like protein; Renal-specifIC, transporter; RST; Urate anion exchanger 1
Gene Symbol	SLC22A12
Entrez Gene	116085(Human); 365398(Rat)
SwissProt	Q96S37(Human); Q8CFZ5(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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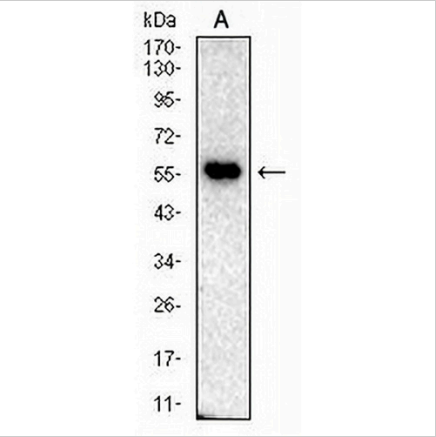
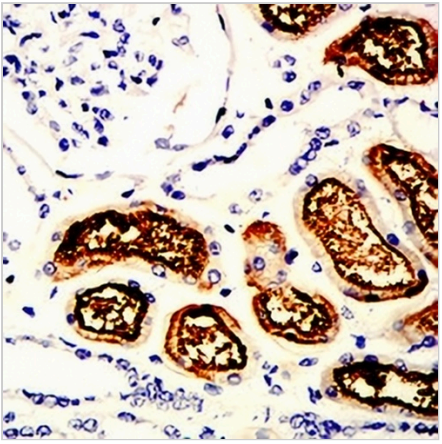
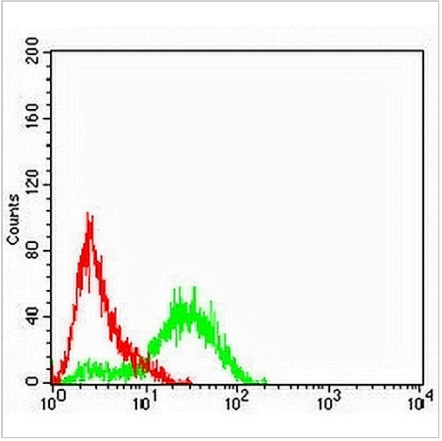
DATA



Western blot analysis of SLC22A12 expression in mouse kindey (A) whole cell lysates. (Predicted band size: 60 kD; Observed band size: 56 kD kD)



Immunohistochemical analysis of SLC22A12 staining in human kidney formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HeLa cells using Anti-SLC22A12 Antibody (green) and negative control (red).

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.