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Anti-SLC22A12 Antibody

Catalog # AP96055

Product Information

Application	WB, IHC, FC
Primary Accession	Q96S37
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	59630

Additional Information

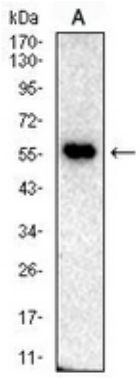
Gene ID	116085
Other Names	OATL4; URAT1; Solute carrier family 22 member 12; OrganIC, anion transporter 4-like protein; Renal-specifIC, transporter; RST; Urate anion exchanger 1
Target/Specificity	Recombinant fusion protein of human SLC22A12 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

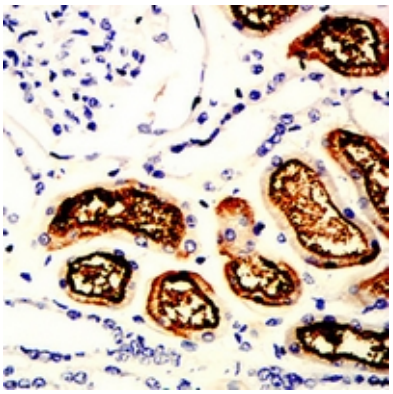
Name	SLC22A12 (HGNC:17989)
Function	Electroneutral antiporter that translocates urate across the apical membrane of proximal tubular cells in exchange for monovalent organic or inorganic anions (PubMed:12024214, PubMed:22194875, PubMed:35144162, PubMed:35462902). Involved in renal reabsorption of urate and helps maintaining blood levels of uric acid (PubMed:12024214, PubMed:22194875). Mediates urate uptake by an exchange with organic anions such as (S)-lactate and nicotinate, and inorganic anion Cl(-) (PubMed:12024214). Other inorganic anions such as Br(-), I(-) and NO3(-) may also act as counteranions that exchange for urate (PubMed:12024214). 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 (PubMed:21350910). Orotate transport is Cl(-)-dependent (PubMed:21350910).
Cellular Location	Apical cell membrane; Multi-pass membrane protein

Tissue Location	Detected in kidney (at protein level). Detected in fetal and adult kidney. Detected in epithelial cells of proximal tubules in renal cortex.

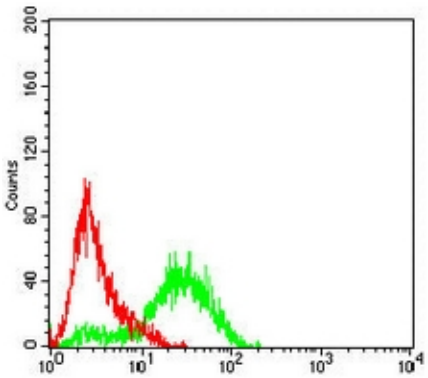
Images



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

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