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

SLC22A12 Rabbit pAb

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Catalog # AP94412

Specification

SLC22A12 Rabbit pAb - Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q96S37
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC22A12
Epitope Specificity	101-200/553
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane, Multi-pass membrane protein.
SIMILARITY	Belongs to the major facilitator (TC 2.A.1) superfamily. Organic cation transporter (TC 2.A.1.19) family.
SUBUNIT	Interacts with PDZK1.
Post-translational modifications	N-glycosylated. Contains several complex-type N-glycans.
DISEASE	Hypouricemia renal 1 (RHUC1) [MIM:220150]: A disorder characterized by impaired uric acid reabsorption at the apical membrane of proximal renal tubule cells, and high urinary urate excretion. Patients often appear asymptomatic, but may be subject to exercise-induced acute renal failure, chronic renal dysfunction and nephrolithiasis. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

The protein encoded by this gene is involved in the sodium-independent transport and excretion of organic anions, some of which are potentially toxic. The encoded protein is an integral membrane protein and is found mainly in the kidney and in the placenta, where it may act to prevent potentially harmful organic anions from reaching the fetus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

SLC22A12 Rabbit pAb - Additional Information

Gene ID 116085

Other Names
Solute carrier family 22 member 12, Organic anion transporter 4-like protein, Renal-specific transporter, RST {ECO:0000303|Ref.2}, Urate anion exchanger 1, URAT1, Urate:anion antiporter SLC22A12, SLC22A12 (HGNC:17989)

Target/Specificity
Detected in placenta and kidney.

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

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

Storage
Store at -20 ℃ 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 ℃.

SLC22A12 Rabbit pAb - 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

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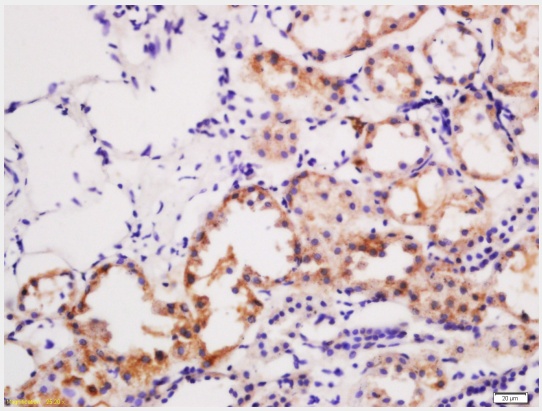
Tissue Location
Detected in kidney (at protein level). Detected in fetal and adult kidney. Detected in epithelial cells of proximal tubules in renal cortex.

SLC22A12 Rabbit pAb - Protocols

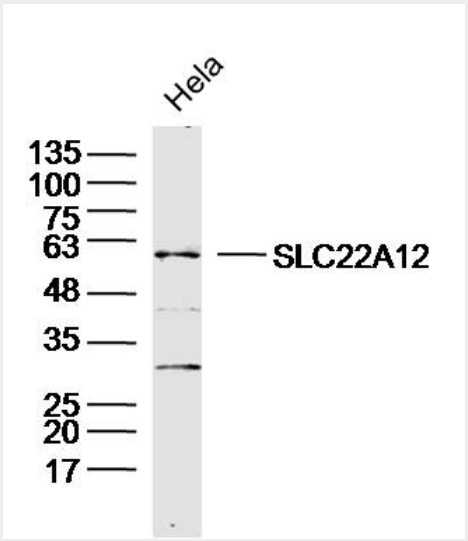
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC22A12 Rabbit pAb - Images



Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-SLC22A12 Polyclonal Antibody, Unconjugated(AP94412) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Sample: Hela Cell (Human) Lysate at 40 ug Primary: Anti-SLC22A12 (AP94412) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 61 kD Observed band size: 61 kD

SLC22A12 Rabbit pAb - Background

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