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SLC22A13 Rabbit pAb

Catalog # AP96359

Product Information

Application	WB
Primary Accession	Q9Y226
Other Accession	Q9Y226
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60862
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC22A13
Epitope Specificity	81-180/551
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the organic-cation transporter family. It is located in a gene cluster with another member of the family, organic cation transporter like 4. The encoded protein is a transmembrane protein involved in the transport of small molecules. This protein can function to mediate urate uptake and is a high affinity nicotinate exchanger in the kidneys and the intestine. [provided by RefSeq, Sep 2008]

Additional Information

Gene ID	9390
Other Names	OAT10; OCTL1; OCTL3; ORCTL-3; ORCTL3; S22AD_HUMAN; SLC22A13; Organic anion transporter 10 (OAT10); Organic cation transporter-like 3 (ORCTL-3 | ORCTL3); S22AD_MOUSE; Organic cation transporter-like 3 (ORCTL-3); solute carrier family 22 member 13; organic cationic transporter-like 3; solute carrier family 22 (organic anion transporter), member 13; solute carrier family 22 (organic anion/urate transporter), member 13
Dilution	WB=1:500-2000
Storage	Store at -20 °C 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 °C.

Protein Information

Name	SLC22A13 (HGNC:8494)
Function	Anion antiporter that mediates the transport of urate, orotate and nicotinate in exchange for organic or inorganic anions (PubMed:18411268, PubMed:31780526, PubMed:35144162, PubMed:35462902). Translocates urate and orotate across the apical membrane of proximal tubule epithelial cells and involved in urate renal reabsorption (PubMed:18411268, PubMed:31780526, PubMed:35144162). Possibly involved in orotate renal reabsorption and nicotinate intestinal reabsorption (PubMed:18411268, PubMed:35144162). Mediates urate uptake by an exchange with organic anions such as (S)-lactate, succinate, glutathione and nicotinate (PubMed:18411268). Urate and orotate transports are Cl(-)-dependent (PubMed:35144162, PubMed:35462902). Shows similar transport characteristics as the urate/orotate renal antiporter SLC22A12/URAT1 and may act as a compensator of SLC22A12/URAT1 in certain conditions (Probable).
Cellular Location	Apical cell membrane; Multi-pass membrane protein
Tissue Location	Ubiquitous (PubMed:10072596). Highly expressed in kidneys and to a weaker extent in brain, heart, and intestine (PubMed:18411268). In kidneys, expressed in proximal convoluted tubule (PubMed:18411268, PubMed:31780526, PubMed:35462902). In kidneys, also expressed in cortical collecting duct, whereas glomerulus and thick ascending limb exhibit no expression (PubMed:18411268)

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