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SLC34A1 Rabbit pAb

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Catalog # AP57671

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q06495
Reactivity	Rat, Human
Predicted	Pig, Cat, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68937
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC34A1
Epitope Specificity	101-200/639
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	Membrane; Multi-pass membrane protein.
DISEASE	The disease is caused by mutations affecting the gene represented in this entry. Disease description:A disease characterized by decreased renal phosphate absorption, renal phosphate wasting, hypophosphatemia, hyperphosphaturia, hypercalciuria, nephrolithiasis and osteoporosis.
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 type II sodium-phosphate cotransporter family. Mutations in this gene are associated with hypophosphatemia nephrolithiasis/osteoporosis 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2009]

Additional Information

Gene ID	6569
Other Names	Sodium-dependent phosphate transport protein 2A, Sodium-phosphate transport protein 2A, Na(+)-dependent phosphate cotransporter 2A, NaPi-3, Sodium/phosphate cotransporter 2A, Na(+)/Pi cotransporter 2A, NaPi-2a, Solute carrier family 34 member 1 {ECO:0000312|HGNC:HGNC:11019}, SLC34A1 (HGNC:11019)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	SLC34A1 (HGNC:11019)
Function	Involved in actively transporting phosphate into cells via Na(+) cotransport in the renal brush border membrane (PubMed:12324554, PubMed:20335586, PubMed:26047794, PubMed:8327470). The cotransport has a Na(+):Pi stoichiometry of 3:1 and is electrogenic (By similarity).
Cellular Location	Apical cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Localized at the brush border membranes of the proximal tubules. Internalized from the cell surface upon PTH stimulation. {ECO:0000250|UniProtKB:Q06496, ECO:0000250|UniProtKB:Q60825}
Tissue Location	Kidney and lung..

Background

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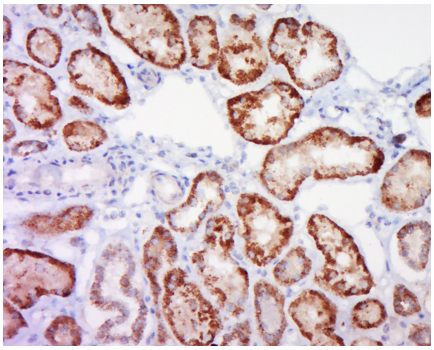
Images



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-SLC34A1 Polyclonal Antibody, Unconjugated(AP57671) 1:600, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining