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

SLC17A1 Rabbit pAb

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Catalog # AP57667

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q14916
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51132
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC17A1
Epitope Specificity	1-100/467
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	Alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A soluble form: Secreted (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MFSD8 is a 518 amino acid multi-pass membrane protein of the lysosome that is thought to function as a carrier protein that transports small solutes by way of chemiosmotic ion gradients. Expressed at low levels in many tissues, MFSD8 is encoded by a gene that maps to human chromosome 4q28.1. Defects in the gene encoding MFSD8 are the cause of a late infantile neuronal ceroid lipofuscinosis known as neuronal ceroid lipofuscinosis type 7 (CLN7). CLN7 is characterized by seizures, progressive dementia and visual failure.

Additional Information

Gene ID	6568
Other Names	Sodium-dependent phosphate transport protein 1, Na(+)/PI cotransporter 1, Na/Pi-4, Renal Na(+)-dependent phosphate cotransporter 1, Renal sodium-dependent phosphate transport protein 1, Renal sodium-phosphate transport protein 1, Sodium/phosphate cotransporter 1, Solute carrier family 17 member 1, SLC17A1, NPT1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	SLC17A1
Synonyms	NPT1
Function	Important for the resorption of phosphate by the kidney (PubMed: 7826357). May be involved in actively transporting phosphate into cells via Na(+) cotransport in the renal brush border membrane (PubMed:7826357). Plays a role in urate transport in the kidney (PubMed:25252215, PubMed:27906618).
Cellular Location	Apical cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in kidney cortex, liver and brain but not in other tissues.

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