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SLC16A12 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57921

Specification

SLC16A12 Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q6ZSM3
Reactivity	**Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**53 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human SLC16A12**
Epitope Specificity	**401-486/486**
Isotype	**IgG**

Purity
affinity purified by Protein A

Buffer	**Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.**
SUBCELLULAR LOCATION	**Cell membrane.**
SIMILARITY	**Belongs to the major facilitator superfamily. Monocarboxylate porter (TC 2.A.1.13) family.**
DISEASE	**Defects in SLC16A12 are a cause of cataract juvenile with microcornea and glucosuria (CJMG) [MIM:612018]. Renal glucosuria is defined by elevated glucose level in the urine without hyperglycemia and without evidence of morphological renal anomalies.**
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 transmembrane transporter that likely plays a role in monocarboxylic acid transport. A mutation in this gene has been associated with juvenile cataracts with microcornea and renal glucosuria. [provided by RefSeq, Mar 2010]

SLC16A12 Polyclonal Antibody - Additional Information

Gene ID 387700

Other Names
Monocarboxylate transporter 12, MCT 12, Creatine transporter 2, CRT2, Solute carrier family 16 member 12 {ECO:0000312|HGNC:HGNC:23094}, SLC16A12 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=23094"

target="_blank">HGNC:23094)

Target/Specificity
Most highly expressed in kidney, followed by retina, lung, and testis. Very weakly expressed in brain and liver. Also detected in lens.

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

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 ℃.

SLC16A12 Polyclonal Antibody - Protein Information

Name SLC16A12 (HGNC:23094)

Function
Functions as a transporter for creatine and as well for its precursor guanidinoacetate. Transport of creatine and GAA is independent of resting membrane potential and extracellular Na(+), Cl(-), or pH. Contributes to the process of creatine biosynthesis and distribution.

Cellular Location
Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q8BGC3}; Multi-pass membrane protein. Note=Interaction with isoform 2 of BSG is required for its localization to the plasma membrane.

Tissue Location
Most highly expressed in kidney, followed by retina, lung, heart and testis. Very weakly expressed in brain and liver. Also detected in lens.

SLC16A12 Polyclonal Antibody - 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

SLC16A12 Polyclonal Antibody - Images