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SLC29A2 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12326

Specification

SLC29A2 antibody - N-terminal region - Product Information

Application	**IHC, WB**
Primary Accession	Q14542
Other Accession	NM_001532, NP_001523
Reactivity	**Human, Rabbit**
Predicted	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**50kDa KDa**

SLC29A2 antibody - N-terminal region - Additional Information

Gene ID 3177

Alias Symbol	**DER12, ENT2, HNP36**

Other Names
Equilibrative nucleoside transporter 2, 36 kDa nucleolar protein HNP36, Delayed-early response protein 12, Equilibrative nitrobenzylmercaptopurine riboside-insensitive nucleoside transporter, Equilibrative NBMPR-insensitive nucleoside transporter, Hydrophobic nucleolar protein, 36 kDa, Nucleoside transporter, ei-type, Solute carrier family 29 member 2, SLC29A2, DER12, ENT2, HNP36

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 100 ul of distilled water. Final anti-SLC29A2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
SLC29A2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

SLC29A2 antibody - N-terminal region - Protein Information

Name SLC29A2 (HGNC:11004)

Synonyms DER12, ENT2, HNP36

Function
Bidirectional uniporter involved in the facilitative transport of nucleosides and nucleobases, and contributes to maintaining their cellular homeostasis (PubMed:10722669, PubMed:12527552, PubMed:<a

href="http://www.uniprot.org/citations/12590919" target="_blank">12590919, PubMed:16214850, PubMed:21795683, PubMed:9396714, PubMed:9478986). Functions as a Na(+)-independent, passive transporter (PubMed:9478986). Involved in the transport of nucleosides such as inosine, adenosine, uridine, thymidine, cytidine and guanosine (PubMed:10722669, PubMed:12527552, PubMed:12590919, PubMed:16214850, PubMed:21795683, PubMed:9396714, PubMed:9478986). Also able to transport purine nucleobases (hypoxanthine, adenine, guanine) and pyrimidine nucleobases (thymine, uracil) (PubMed:16214850, PubMed:21795683). Involved in nucleoside transport at basolateral membrane of kidney cells, allowing liver absorption of nucleoside metabolites (PubMed:12527552). Mediates apical nucleoside uptake into Sertoli cells, thereby regulating the transport of nucleosides in testis across the blood-testis-barrier (PubMed:23639800). Mediates both the influx and efflux of hypoxanthine in skeletal muscle microvascular endothelial cells to control the amount of intracellular hypoxanthine available for xanthine oxidase-mediated ROS production (By similarity).

Cellular Location
Apical cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein. Note=Localized to the apical membrane of Sertoli cells.

Tissue Location
Highly expressed in skeletal muscle (PubMed:9478986). Expressed in liver, lung, placenta, brain, heart, kidney and ovarian tissues (PubMed:9478986). Expressed in testis at the blood-brain-barrier (PubMed:23639800).

SLC29A2 antibody - N-terminal region - 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

SLC29A2 antibody - N-terminal region - Images

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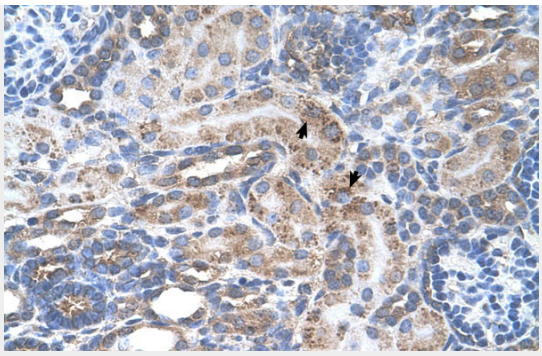
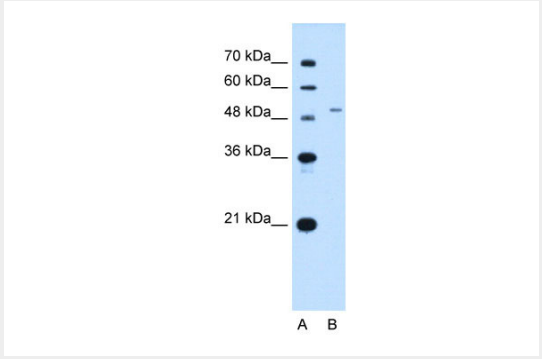


Human kidney



WB Suggested Antibody Titration: 2.5 µg/ml
Positive Control: HepG2

SLC29A2 antibody - N-terminal region - References

Owen,R.P.,(2006)DrugMetab.Dispos.34(1),12-15ReconstitutionandStorage:Forshorttermuse,storeat 2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.Publications:Okuda,H.,Higashi,Y.,Nishida,K.,Fujimoto,S.&Nagasawa,K.ContributionofP2X7receptorstoadenosineuptakebyculturedmouseastrocytes.Glia58,1757-65(2010).WB,Human,Rabbit20645413