

**SLC29A2 / ENT2 Antibody (Internal)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16422****Specification****SLC29A2 / ENT2 Antibody (Internal) - Product Information**

Application	IHC
Primary Accession	<a href="#">Q14542</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50kDa KDa

**SLC29A2 / ENT2 Antibody (Internal) - Additional Information****Gene ID** 3177**Other Names**

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

**Target/Specificity**

SLC29A2 antibody is human specific. SLC29A2 antibody is predicted to not cross-react with other SLC29 proteins.

**Reconstitution & Storage**

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

**Precautions**

SLC29A2 / ENT2 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**SLC29A2 / ENT2 Antibody (Internal) - 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](http://www.uniprot.org/citations/10722669), PubMed: [12527552](http://www.uniprot.org/citations/12527552), PubMed: [12590919](http://www.uniprot.org/citations/12590919), PubMed: [16214850](http://www.uniprot.org/citations/16214850), PubMed: [21795683](http://www.uniprot.org/citations/21795683)), PubMed: [10722669](#), PubMed: [12527552](#), PubMed: [12590919](#), PubMed: [16214850](#), PubMed: [21795683](#)

href="http://www.uniprot.org/citations/9396714" target="\_blank">9396714</a>, PubMed:<a href="http://www.uniprot.org/citations/9478986" target="\_blank">9478986</a>). Functions as a Na(+)-independent, passive transporter (PubMed:<a href="http://www.uniprot.org/citations/9478986" target="\_blank">9478986</a>). Involved in the transport of nucleosides such as inosine, adenosine, uridine, thymidine, cytidine and guanosine (PubMed:<a href="http://www.uniprot.org/citations/10722669" target="\_blank">10722669</a>, PubMed:<a href="http://www.uniprot.org/citations/12527552" target="\_blank">12527552</a>, PubMed:<a href="http://www.uniprot.org/citations/12590919" target="\_blank">12590919</a>, PubMed:<a href="http://www.uniprot.org/citations/16214850" target="\_blank">16214850</a>, PubMed:<a href="http://www.uniprot.org/citations/21795683" target="\_blank">21795683</a>, PubMed:<a href="http://www.uniprot.org/citations/9396714" target="\_blank">9396714</a>, PubMed:<a href="http://www.uniprot.org/citations/9478986" target="\_blank">9478986</a>). Also able to transport purine nucleobases (hypoxanthine, adenine, guanine) and pyrimidine nucleobases (thymine, uracil) (PubMed:<a href="http://www.uniprot.org/citations/16214850" target="\_blank">16214850</a>, PubMed:<a href="http://www.uniprot.org/citations/21795683" target="\_blank">21795683</a>). Involved in nucleoside transport at basolateral membrane of kidney cells, allowing liver absorption of nucleoside metabolites (PubMed:<a href="http://www.uniprot.org/citations/12527552" target="\_blank">12527552</a>). Mediates apical nucleoside uptake into Sertoli cells, thereby regulating the transport of nucleosides in testis across the blood-testis-barrier (PubMed:<a href="http://www.uniprot.org/citations/23639800" target="\_blank">23639800</a>). 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 / ENT2 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### SLC29A2 / ENT2 Antibody (Internal) - Images





Human Skeletal Muscle: Formalin-Fixed, Paraffin-Embedded (FFPE)

### **SLC29A2 / ENT2 Antibody (Internal) - Background**

Mediates equilibrative transport of purine, pyrimidine nucleosides and the purine base hypoxanthine. Very less sensitive than SLC29A1 to inhibition by nitrobenzylthioinosine (NBMPR), dipyridamole, dilazep and draflazine.

### **SLC29A2 / ENT2 Antibody (Internal) - References**

- Williams J.B., et al. *Biochem. Biophys. Res. Commun.* 213:325-333(1995).
- Griffiths M., et al. *Biochem. J.* 328:739-743(1997).
- Crawford C.R., et al. *J. Biol. Chem.* 273:5288-5293(1998).
- Mangravite L.M., et al. *Am. J. Physiol.* 284:F902-F910(2003).
- Ota T., et al. *Nat. Genet.* 36:40-45(2004).