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# SLC29A2 / ENT2 Antibody (Internal)
**Rabbit Polyclonal Antibody**
**Catalog # ALS16422**

## Specification

### SLC29A2 / ENT2 Antibody (Internal) - Product Information

| | |
|---|---|
| Application | **IHC** |
| Primary Accession | Q14542 |
| 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 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

**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:<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>, PubMed:<a href="http://www.uniprot.org/citations/12527552" target="_blank">12527552</a>, PubMed:<a href="http://www.uniprot.org/citations/10722669" target="_blank">10722669</a>, PubMed:<a href="http://www.uniprot.org/citations/12590919" target="_blank">12590919</a>, PubMed:<a

href="http://www.uniprot.org/citations/21795683" target="_blank">21795683</a>, PubMed:<a href="http://www.uniprot.org/citations/16214850" target="_blank">16214850</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/9396714" target="_blank">9396714</a>, PubMed:<a href="http://www.uniprot.org/citations/9478986" target="_blank">9478986</a>, PubMed:<a href="http://www.uniprot.org/citations/12527552" target="_blank">12527552</a>, PubMed:<a href="http://www.uniprot.org/citations/10722669" target="_blank">10722669</a>, PubMed:<a href="http://www.uniprot.org/citations/12590919" target="_blank">12590919</a>, PubMed:<a href="http://www.uniprot.org/citations/21795683" target="_blank">21795683</a>, PubMed:<a href="http://www.uniprot.org/citations/16214850" target="_blank">16214850</a>). Also able to transport purine nucleobases (hypoxanthine, adenine, guanine) and pyrimidine nucleobases (thymine, uracil) (PubMed:<a href="http://www.uniprot.org/citations/21795683" target="_blank">21795683</a>, PubMed:<a href="http://www.uniprot.org/citations/16214850" target="_blank">16214850</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 Cytomety
- Cell Culture

## SLC29A2 / ENT2 Antibody (Internal) - Images

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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).