

**Anti-ENT2 Antibody**  
Rabbit polyclonal antibody to ENT2  
Catalog # AP60163

**Specification**

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**Anti-ENT2 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O14542</a>
Other Accession	<a href="#">O61672</a>
Reactivity	<b>Human, Mouse, Rat, Bovine</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>50113</b>

**Anti-ENT2 Antibody - Additional Information**

**Gene ID** 3177

**Other Names**

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

**Target/Specificity**

Recognizes endogenous levels of ENT2 protein.

**Dilution**

WB~~WB (1/500 - 1/1000)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-ENT2 Antibody - 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/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/12527552" target="\_blank">12527552</a>, PubMed:<a href="http://www.uniprot.org/citations/12527552" target="\_blank">12527552</a>)

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

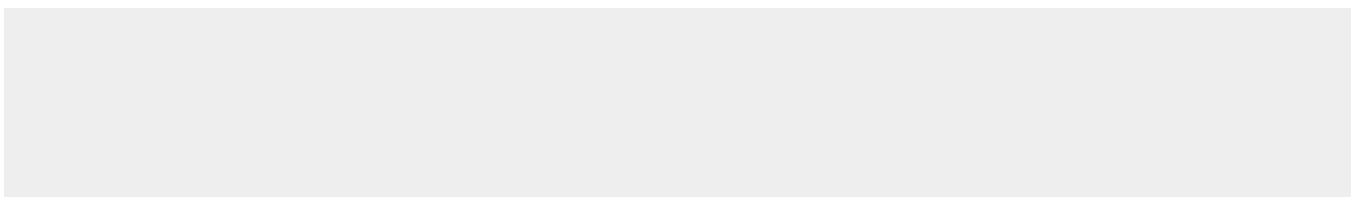
Highly expressed in skeletal muscle (PubMed:9478986). Expressed in liver, lung, placenta, brain, heart, kidney and ovarian tissues (PubMed:9478986). Expressed in testis at the blood-brain-barrier (PubMed:23639800).

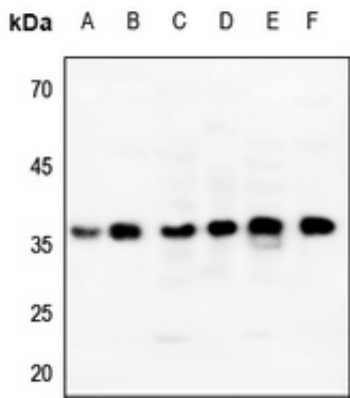
#### Anti-ENT2 Antibody - Protocols

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

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

#### Anti-ENT2 Antibody - Images





Western blot analysis of ENT2 expression in Hela (A), mouse muscle (B), mouse lung (C), mouse brain (D), rat liver (E), rat heart (F) whole cell lysates.

#### **Anti-ENT2 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ENT2. The exact sequence is proprietary.