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Anti-ENT1 Antibody

Catalog # AP51518

Product Information

Application	WB
Primary Accession	Q99808
Reactivity	Human, Mouse, Rat, Bovine, Dog, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50219

Additional Information

Gene ID	2030
Other Names	ENT1; Equilibrative nucleoside transporter 1; Equilibrative nitrobenzylmercaptopurine riboside-sensitive nucleoside transporter; Equilibrative NBMPR-sensitive nucleoside transporter; Nucleoside transporter, es-type; Solute carrier family 29 member 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human ENT1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

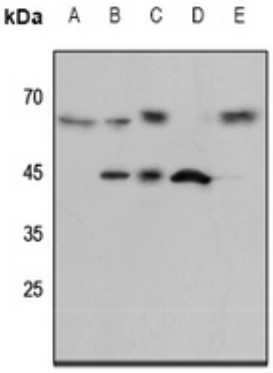
Name	SLC29A1 (HGNC:11003)
Synonyms	ENT1
Function	Uniporter involved in the facilitative transport of nucleosides and nucleobases, and contributes to maintaining their cellular homeostasis (PubMed:10722669, PubMed:10755314, PubMed:12527552, PubMed:14759222, PubMed:15037197, PubMed:17379602, PubMed:21795683, PubMed:26406980, PubMed:27995448, PubMed:35790189, PubMed:8986748). Functions as a Na(+)-independent transporter (PubMed:8986748). Involved in the transport of nucleosides such as adenosine, guanosine, inosine, uridine, thymidine and cytidine (PubMed:10722669, PubMed:10755314, PubMed:12527552, PubMed:14759222, PubMed:15037197, PubMed:17379602, PubMed:26406980, PubMed:8986748, PubMed:39737929). Also transports

	purine nucleobases (hypoxanthine, adenine, guanine) and pyrimidine nucleobases (thymine, uracil) (PubMed:21795683, PubMed:27995448). Also mediates the uptake of nicotinamide; contributes to maintaining nicotinamide homeostasis but also regulated nicotinamide biological roles (PubMed:39885119). Mediates basolateral nucleoside uptake into Sertoli cells, thereby regulating the transport of nucleosides in testis across the blood-testis barrier (By similarity). Regulates inosine levels in brown adipocytes tissues (BAT) and extracellular inosine levels, which controls BAT-dependent energy expenditure (PubMed:35790189).
Cellular Location	Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Localized to the basolateral membrane of Sertoli cells (PubMed:23639800). Localized to the cell membrane of erythrocytes (PubMed:11584005, PubMed:23219802).
Tissue Location	Expressed in testis at the blood-testis barrier (at protein level) (PubMed:23639800). Detected in erythrocytes (at protein level) (PubMed:11584005, PubMed:23219802). Expressed at relatively high levels in cerebral cortex, particularly the frontal and parietal lobes, and the thalamus and basal ganglia (at protein level) (PubMed:11311901). In the midbrain expressed at moderate levels, whereas in the other areas of the brainstem, namely medulla and pons, cerebellum and the hippocampus expressed at lower amounts when compared to the other brain regions (at protein level) (PubMed:11311901) Expressed in Langerhans cells and lymphocytes in the pancreas (at protein level) (PubMed:15501974). Expressed in kidney, in polarized renal epithelial cells (PubMed:12527552). Expressed in adipose tissues (PubMed:35790189). Expressed in placenta (PubMed:8986748). Expressed in small intestine (PubMed:10755314).

References

Griffiths M.,et al.Nat. Med. 3:89-93(1997).
Graham K.A.,et al.Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
Lum P.Y.,et al.Cancer Chemother. Pharmacol. 45:273-278(2000).
Sankar N.,et al.Nucleic Acids Res. 30:4339-4350(2002).
Mangravite L.M.,et al.Am. J. Physiol. 284:F902-F910(2003).

Images



Western blot analysis of ENT1 expression in mouse liver (A), mouse heart (B), mouse brain (C), rat heart (D), rat brain (E) whole cell lysates. (Predicted band size: 50 kD; Observed band size: 55; 45 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.