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Anti-HLA-DQ-AcalephFluor488-labled

Catalog # AP101180

Product Information

Application	FC, IF/IC
Primary Accession	Q14542
Reactivity	Human
Clonality	Monoclonal
Calculated MW	50113

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 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
Target/Specificity	Recognizes human HLA-DQ
Dilution	FC~~1:10~50 IF/IC~~N/A
Format	Mouse IgG2a kappa. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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: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). Also mediates nicotinamide uptake

	supporting homeostasis and modulating its biological activities (PubMed:39885119). Can also transport urate (PubMed:40367900). 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. 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).

Background

AcalephFluor488-labled mouse monoclonal antibody to HLA-DQ

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