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SLC29A3 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57946

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC
Primary Accession	Q9BZD2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51815

Additional Information

Gene ID	55315
Other Names	Equilibrative nucleoside transporter 3, hENT3, Solute carrier family 29 member 3, SLC29A3, ENT3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SLC29A3 (HGNC:23096)
Synonyms	ENT3
Function	Uniporter that mediates the facilitative transport of nucleoside across lysosomal and mitochondrial membranes (PubMed:15701636, PubMed:19164483, PubMed:20595384, PubMed:28729424). Functions as a non-electrogenic Na(+)-independent transporter (PubMed:15701636, PubMed:19164483, PubMed:28729424). Transport activity is pH-dependent and enhanced under acidic conditions, consistent with localization to acidic intracellular compartments (PubMed:15701636, PubMed:19164483, PubMed:28729424). Protons are not cotransported but likely modulate transport by altering the ionization state of the transporter which dictates its conformation, thereby regulating substrate permeability (PubMed:28729424). May direct the nucleoside transport from lysosomes to cytosol or cytosol to mitochondria to facilitate nucleic acid salvage pathways (PubMed:28729424). Transports nucleosides (adenosine, guanosine, uridine, thymidine, cytidine and inosine), deoxynucleosides (deoxyadenosine, deoxycytidine), purine nucleobases (adenine, guanine) and pyrimidine nucleobases (uracil)

	(PubMed:15701636, PubMed:19164483, PubMed:20595384, PubMed:28729424). Also capable of transporting monoamine neurotransmitters dopamine, serotonin, noradrenaline and tyramine, as well as ATP (PubMed:19164483). Mediates nucleoside export from lysosomes in macrophages, thereby regulating macrophage function and number (By similarity). Also functions as a lysosomal urate exporter, contributing to intracellular urate disposal (PubMed:41476938). Regulates inflammasome activation via dual roles in urate and adenosine transport (PubMed:41476938).
Cellular Location	Lysosome membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Mitochondrion membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Observed in a punctate intracellular pattern showing partial colocalization with late endosomes/lysosomes (PubMed:15701636). Detected at the cell surface only in certain placental cells (PubMed:19164483)
Tissue Location	Widely expressed in both adult and fetal tissues (PubMed:15701636). Highest levels in placenta, uterus, ovary, spleen, lymph node and bone marrow (PubMed:15701636). Expressed in liver (PubMed:19164483). Lowest levels in brain and heart (PubMed:15701636) Expressed in macrophages (PubMed:22174130)

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