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SLC29A3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12865A

Specification

SLC29A3 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9BZD2
Other Accession	NP_060814.4
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**51815**
Antigen Region	**21-50**

SLC29A3 Antibody (N-term) - Additional Information

Gene ID 55315

Other Names
Equilibrative nucleoside transporter 3, hENT3, Solute carrier family 29 member 3, SLC29A3, ENT3

Target/Specificity
This SLC29A3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 21-50 amino acids from the N-terminal region of human SLC29A3.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SLC29A3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC29A3 Antibody (N-term) - 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). Substrate transport is pH-dependent and enhanced under acidic condition, probably reflecting the location of the transporter in acidic intracellular compartments (PubMed:15701636, PubMed:19164483, PubMed:28729424). Proton is not a cotransporting ion but most likely change the ionization state of the transporter which dictates transport- permissible/impermissible conformation for nucleoside translocation (PubMed:28729424). May direct the nucleoside transport from lysosomes to cytosol or cytosol to mitochondria to facilitate the fundamental function of salvage synthesis of nucleic acids (PubMed:28729424). Involved in the transport of nucleosides (adenosine, guanosine, uridine, thymidine, cytidine and inosine) and deoxynucleosides (deoxyadenosine, deoxycytidine) (PubMed:15701636, PubMed:19164483, PubMed:20595384, PubMed:28729424). Also mediates transport of purine nucleobases (adenine, guanine) and pyrimidine nucleobases (uracil) (PubMed:15701636, PubMed:19164483). Also able to transport monoamine neurotransmitters dopamine, serotonin, noradrenaline and tyramine (PubMed:19164483). Capable of transporting ATP (PubMed:19164483). Mediates nucleoside export from lysosomes in macrophages, which regulates macrophage functions and numbers (By similarity).

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)

SLC29A3 Antibody (N-term) - 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

SLC29A3 Antibody (N-term) - Images

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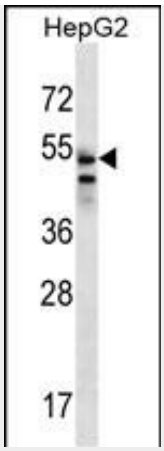
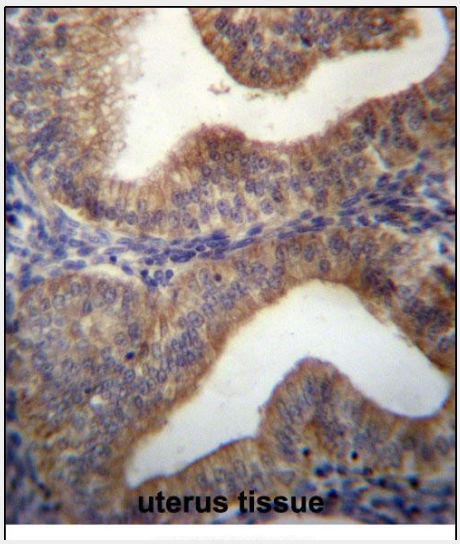


SLC29A3 Antibody (N-term) (Cat. #AP12865a) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the SLC29A3 antibody detected the SLC29A3 protein (arrow).



SLC29A3 Antibody (N-term) (Cat. #AP12865a)immunohistochemistry analysis in formalin fixed and paraffin embedded human uterus tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SLC29A3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

SLC29A3 Antibody (N-term) - Background

This gene encodes a nucleoside transporter. The encoded protein plays a role in cellular uptake of nucleosides, nucleobases, and their related analogs. Mutations in this gene have been associated with H syndrome, which is characterized by cutaneous hyperpigmentation and hypertrichosis, hepatosplenomegaly, heart anomalies, and hypogonadism. A related disorder, PHID (pigmented hypertrichosis with insulin-dependent diabetes mellitus), has also been associated with mutations at this locus. Alternatively spliced transcript variants have been described.

SLC29A3 Antibody (N-term) - References

Gass, N., et al. J Affect Disord 126 (1-2), 134-139 (2010) :
Kang, N., et al. J. Biol. Chem. 285(36):28343-28352(2010)
Li, X., et al. Zhongguo Fei Ai Za Zhi 13(5):458-463(2010)

Priya, T.P., et al. Br. J. Dermatol. 162(5):1132-1134(2010)
Cliffe, S.T., et al. Hum. Mol. Genet. 18(12):2257-2265(2009)