

SLC29A3 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12865A**Specification**

SLC29A3 Antibody (N-term) - Product Information

Application	IHC-P, WB,E
Primary Accession	O9BZD2
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

IHC-P~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

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

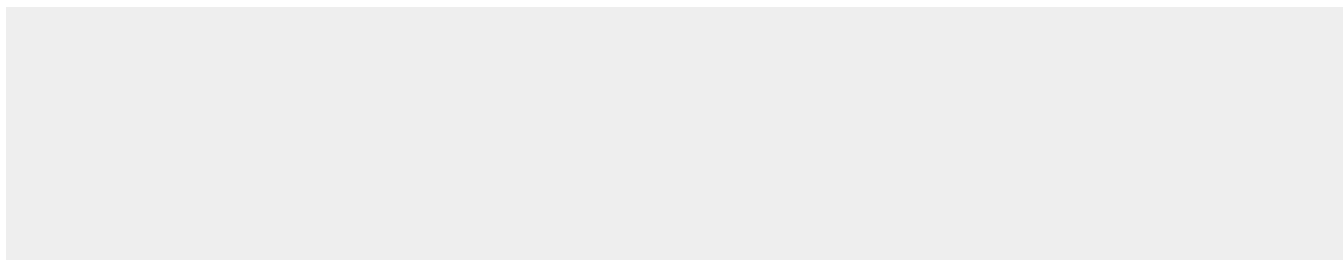
Widely expressed in both adult and fetal tissues (PubMed:[15701636](#)). Highest levels in placenta, uterus, ovary, spleen, lymph node and bone marrow (PubMed:[15701636](#)). Expressed in liver (PubMed:[19164483](#)). Lowest levels in brain and heart (PubMed:[15701636](#)) Expressed in macrophages (PubMed:[22174130](#))

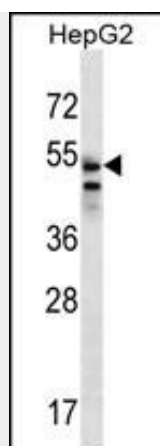
SLC29A3 Antibody (N-term) - Protocols

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

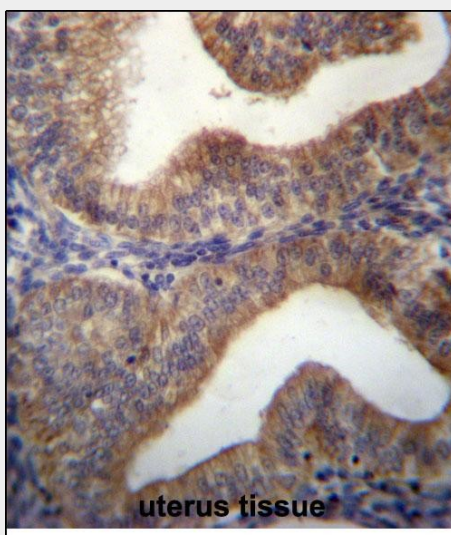
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC29A3 Antibody (N-term) - Images





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)