

SLC11A2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP13801C

Product Information

Application WB, E Primary Accession P49281

Other Accession NP 001167598.1, NP 000608.1

Reactivity Human, Rat, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB34426
Calculated MW 62266
Antigen Region 262-291

Additional Information

Gene ID 4891

Other Names Natural resistance-associated macrophage protein 2, NRAMP 2, Divalent

cation transporter 1, Divalent metal transporter 1, DMT-1, Solute carrier

family 11 member 2, SLC11A2, DCT1, DMT1, NRAMP2

Target/Specificity This SLC11A2 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 262-291 amino acids from the Central

region of human SLC11A2.

Dilution 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 SLC11A2 Antibody (Center) is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name SLC11A2

Synonyms DCT1, DMT1, NRAMP2

Function

Proton-coupled metal ion symporter operating with a proton to metal ion stoichiometry of 1:1 (PubMed:17109629, PubMed:17293870, PubMed:17293

Cellular Location

[Isoform 1]: Early endosome membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Note=Predominantly localizes in early endosomes that underlie the apical membrane of polarized epithelia. [Isoform 3]: Cell membrane

Tissue Location

Ubiquitously expressed. Expressed in erythroid progenitors.

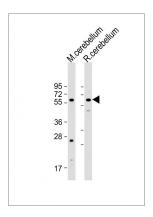
Background

This gene encodes a member of the solute carrier family 11 protein family. The product of this gene transports divalent metals and is involved in iron absorption. Mutations in this gene are associated with hypochromic microcytic anemia with iron overload. A related solute carrier family 11 protein gene is located on chromosome 2. Multiple transcript variants encoding different isoforms have been found for this gene.

References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Ucisik-Akkaya, E., et al. Mol. Hum. Reprod. 16(10):770-777(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Tabuchi, M., et al. J. Cell. Sci. 123 (PT 5), 756-766 (2010) : Tabuchi, M., et al. Mol. Biol. Cell 13(12):4371-4387(2002)

Images



All lanes: Anti-SLC11A2 Antibody (Center) at 1:2000 dilution Lane 1: mouse cerebellum lysate Lane 2: rat cerebellum lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 62 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

• <u>Deciphering the luteal transcriptome</u>: <u>potential mechanisms mediating stage-specific luteolytic response of the corpus luteum to prostaglandin F₂α.</u>

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