## For Research Use Only

## DMT1 Polyclonal antibody

Catalog Number: 20507-1-AP

Featured Product





## Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 20507-1-AP BC002592 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Concentration: 400 µg/ml 4891 WB: 1:1000-1:4000 IHC: 1:50-1:500 UNIPROT ID: Source: IF-P: 1:400-1:1600 Rabbit P49281 IF/ICC: 1:200-1:800 Full Name: Isotype: lgG solute carrier family 11 (protoncoupled divalent metal ion Immunogen Catalog Number: transporters), member 2 AG14314 Calculated MW: 568 aa, 62 kDa Observed MW: 60-70 kDa **Applications Tested Applications: Positive Controls:** WB, IHC, IF/ICC, IF-P, ELISA WB: HuH-7 cells, COLO 320 cells, Caco-2 cells, rat **Cited Applications:** kidney tissue, SH-SY5Y cells, Neuro-2a cells WB. IHC. IF IHC : mouse brain tissue, human pancreas tissue **Species Specificity:** IF-P: mouse small intestine tissue, mouse brain tissue human, mouse, rat IF/ICC : HepG2 cells, **Cited Species:** human, mouse, rat, pig, chicken, bovine, sheep Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **Background Information** SLC11A2 (also known as DMT1, Nramp2, and DCT1) is a member of the divalent cation transporters that play a central role in iron homeostasis. SLC11A2 is widely expressed in many tissues including the brain, kidney, testis, duodenum, and placenta. As a membrane protein, SLC 11A2 is localized on the apical membrane of enterocytes as well as in transferrin-cycle endosomes. Four isoforms of SLC11A2 exist due to the alternative splicing. They differ at the NH2 and COOH termini but share a common central domain. A variety of molecular weights of SLC11A2 in western blot analysis, ranging from 50 to 100 kDa, has been reported in different cells and species. The differences in molecular weights may be attributed to the level of glycosylation, proteolysis, or the membrane protein itself. This antibody detected various forms of SLC11A2 of 45-100 kDa. Notable Publicati

tions	Author	Pubmed ID	Journal	Application
	Tao Xiang	34592245	Brain Res	WB
	Peng Zhao	31551410	Cell Death Dis	WB
	Guangli Rong	36247243	Am J Transl Res	WB

Storage

Storage:

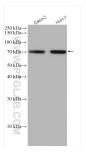
Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage

 For technical support and original validation data for this product please contact:

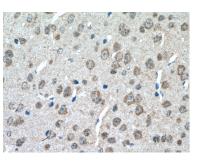
 T: 4006900926
 E: Proteintech-CN@ptglab.com
 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



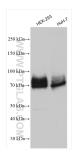
Various cell lysates were subjected to SDS PAGE followed by western blot with 20507-1-AP (DMT1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



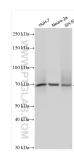
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 20507-1-AP (SLC11A2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



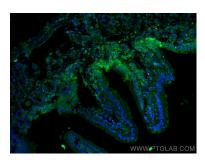
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 20507-1-AP (SLC 11A2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



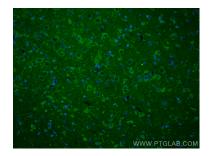
Various lysates were subjected to SDS PAGE followed by western blot with 20507-1-AP (DMT1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



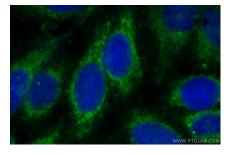
Various lysates were subjected to SDS PAGE followed by western blot with 20507-1-AP (DMT1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse small intestine tissue using DMT1 antibody (20507-1-AP) at dilution of 1:800 and CoraLite@488-Conjugated Goat Anti-Rabbit IgC(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using DMT1 antibody (20507-1-AP) at dilution of 1:200 and CoraLiteB488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using DMT1 antibody (20507-1-AP) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).