



Datasheet for ABIN562043
anti-SLC11A2 antibody (AA 1-65)



[Go to Product page](#)

3 Images

4 Publications

Overview

Quantity:	100 µg
Target:	SLC11A2
Binding Specificity:	AA 1-65
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SLC11A2 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Mouse monoclonal antibody raised against a partial recombinant SLC11A2.
Immunogen:	SLC11A2 (NP_000608, 1 a.a. ~ 65 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence:	MVLGPEQKMS DDSVSGDHGE SASLGNINPA YSNP SLSQSP GDSEEFATY FNEKISIP EE EYSCF
Clone:	4C6
Isotype:	IgG2a
Cross-Reactivity:	Human
Characteristics:	Antibody Reactive Against Recombinant Protein.

Target Details

Target:	SLC11A2
Alternative Name:	SLC11A2 (SLC11A2 Products)
Background:	Full Gene Name: solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2 Synonyms: DCT1,DMT1,FLJ37416,NRAMP2
Gene ID:	4891
NCBI Accession:	NM_000617
Pathways:	Transition Metal Ion Homeostasis , Proton Transport , Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Buffer:	In 1x PBS, pH 7.4
Handling Advice:	Aliquot to avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

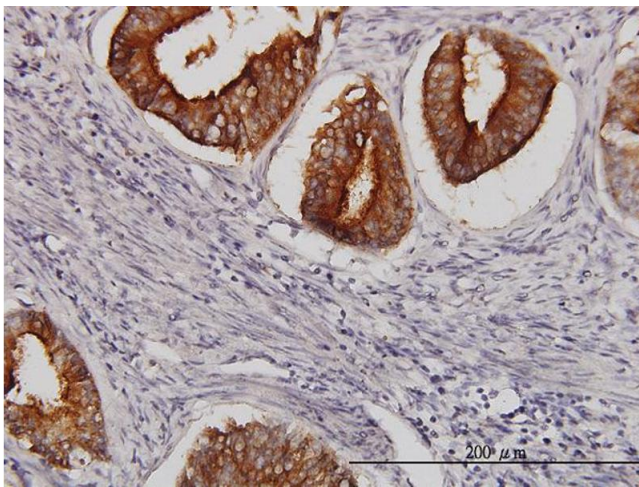
Publications

Product cited in:	Montalbetti, Simonin, Simonin, Awale, Reymond, Hediger: "Discovery and characterization of a novel non-competitive inhibitor of the divalent metal transporter DMT1/SLC11A2." in: Biochemical pharmacology , Vol. 96, Issue 3, pp. 216-24, (2015) (PubMed).
	Montalbetti, Simonin, Dalghi, Kovacs, Hediger: "Development and Validation of a Fast and Homogeneous Cell-Based Fluorescence Screening Assay for Divalent Metal Transporter 1 (DMT1/SLC11A2) Using the FLIPR Tetra." in: Journal of biomolecular screening , Vol. 19, Issue 6, pp. 900-908, (2014) (PubMed).
	Howitt, Putz, Lackovic, Doan, Dorstyn, Cheng, Yang, Chan-Ling, Silke, Kumar, Tan: "Divalent

metal transporter 1 (DMT1) regulation by Ndfip1 prevents metal toxicity in human neurons." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 106, Issue 36, pp. 15489-94, (2009) ([PubMed](#)).

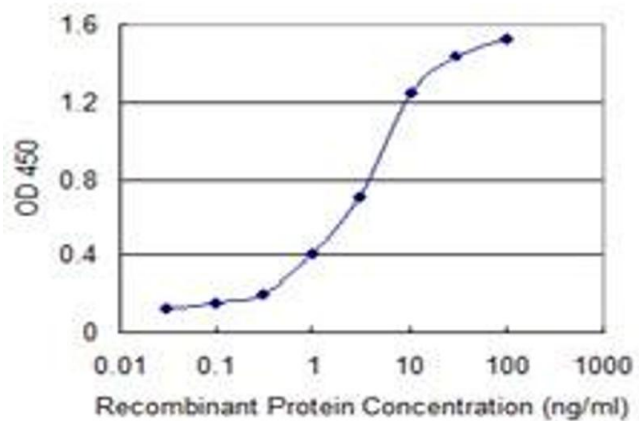
Foot, Dalton, Shearwin-Whyatt, Dorstyn, Tan, Yang, Kumar: "Regulation of the divalent metal ion transporter DMT1 and iron homeostasis by a ubiquitin-dependent mechanism involving Ndfips and WWP2." in: **Blood**, Vol. 112, Issue 10, pp. 4268-75, (2008) ([PubMed](#)).

Images



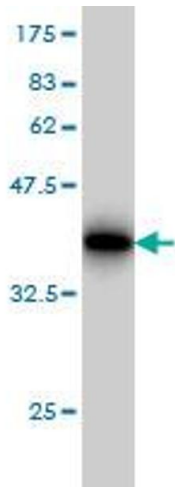
Immunostaining

Image 1. Immunoperoxidase of monoclonal antibody to SLC11A2 on formalin-fixed paraffin-embedded human endometrium cancer. [antibody concentration 3 ug/ml]



ELISA

Image 2. Detection limit for recombinant GST tagged SLC11A2 is 0.03 ng/ml as a capture antibody.



Western Blotting

Image 3. Western Blot detection against Immunogen (32.89 kDa).