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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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SLC11A2 monoclonal antibody (M01), clone 4C6

Catalog # : H00004891-M01

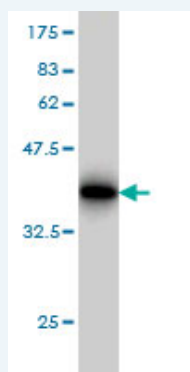
規格 : [100 ug]

[List All](#)

Specification

Product Description:	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:	MVLGPEQKMSDDSVSGDHGESASLGNINPAYSNPSSLQSPGDSEEFYFAYFNEKISIPEEEEYSCF
Host:	Mouse
Reactivity:	Human
Isotype:	IgG2a Kappa

Quality Control Testing: Antibody Reactive Against Recombinant Protein.



Western Blot detection against Immunogen (32.89 KDa) .

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

MSDS: [Download](#)

Datasheet: [Download](#)

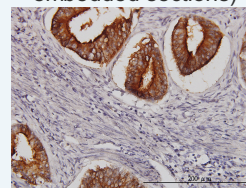
Publication Reference

- [Discovery and characterization of a novel non-competitive inhibitor of the divalent metal transporter DMT1/SLC11A2.](#)
Montalbetti N, Simonin A, Simonin C, Awale M, Reymond JL, Hediger MABiochem Pharmacol. 2015 Jun 2.[Epub ahead of print]
- [Development and Validation of a Fast and Homogeneous Cell-Based Fluorescence Screening Assay for Divalent Metal Transporter 1 \(DMT1/SLC11A2\) Using the FLIPR Tetra.](#)
Montalbetti N, Simonin A, Dalghi MG, Kovacs G, Hediger MAJ Biomol Screen. 2014 Feb 6.
- [Divalent metal transporter 1 \(DMT1\) regulation by Ndfip1 prevents metal toxicity in](#)

Application Image

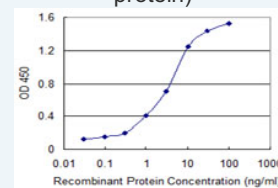
Western Blot (Recombinant protein)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



[enlarge](#)

Sandwich ELISA (Recombinant protein)



[enlarge](#)

ELISA

human neurons.

Howitt J, Putz U, Lackovic J, Doan A, Dorstyn L, Cheng H, Yang B, Chan-Ling T, Silke J, Kumar S, Tan SS. Proc Natl Acad Sci U S A. 2009 Sep 8;106(36):15489-94. Epub 2009 Aug 25.

4. [Regulation of the divalent metal ion transporter DMT1 and iron homeostasis by a ubiquitin-dependent mechanism involving Ndfips and WWP2.](#)

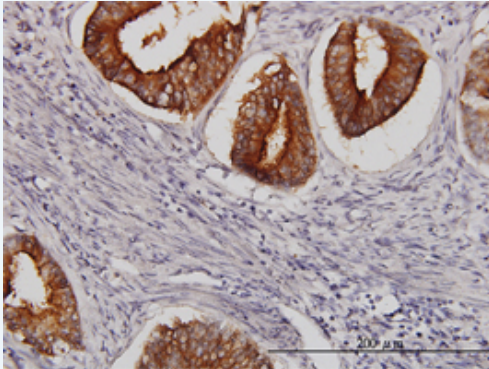
Foot NJ, Dalton HE, Shearwin-Whyatt LM, Dorstyn L, Tan SS, Yang B, Kumar S. Blood. 2008 Nov 15;112(10):4268-75. Epub 2008 Sep 5.


Applications

Western Blot (Recombinant protein)

 [Protocol Download](#)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

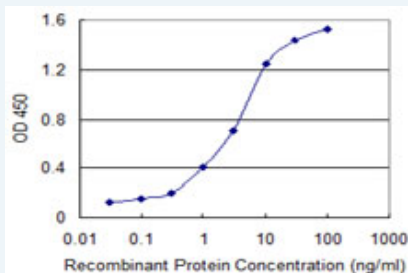


 [enlarge this image](#)

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

 [Protocol Download](#)

Sandwich ELISA (Recombinant protein)



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

 [Protocol Download](#)

ELISA

Gene Information

Entrez GeneID: [4891](#)

GeneBank [NM_000617](#)
Accession#:

Protein [NP_000608](#)
Accession#:

Gene Name: SLC11A2

Gene Alias: DCT1,DMT1,FLJ37416,NRAMP2

Gene Description: solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2

Omim ID: [206100](#), [600523](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: The SLC11A2 gene encodes a divalent metal transporter (DMT1), which carries iron, manganese, cobalt, nickel, cadmium, lead, copper, and zinc. DMT1 participates in cellular iron absorption at the luminal surface of the duodenum as well as in other areas of the body (Hubert and Hentze, 2002 [PubMed 12209011]; Ludwiczek et al., 2007 [PubMed 17293870]).[supplied by OMIM]

Other natural resistance-associated macrophage protein 2

Designations:

Gene Pathway

[Lysosome](#)

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[Abortion, Spontaneous](#) [Alzheimer Disease](#) [Alzheimer disease](#) [Cardiovascular Diseases](#)
[Diabetes Mellitus, Type 2](#) [Edema](#) [Genetic Predisposition to Disease](#) [Hemochromatosis](#)
[Hereditary hemochromatosis](#) [Iron Overload](#) [Tobacco Use Disorder](#)
[Tuberculosis, Pulmonary](#)

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