abcam

Product datasheet

Anti-DMT1 antibody ab140977

★★★★★ 3 Abreviews 2 References 2 Images

Overview

Product name Anti-DMT1 antibody

Description Rabbit polyclonal to DMT1

Host species Rabbit

Specificity BLAST analysis of the peptide immunogen showed no homology with other Human proteins.

Tested applications Suitable for: IHC-P

Species reactivity Reacts with: Human

Predicted to work with: Mouse, Rat, Horse, Hamster, Cow, Chimpanzee, Monkey, Gorilla,

Common marmoset, Orangutan, Elephant 4

Immunogen Synthetic 16 amino acid peptide from the internal region of Human DMT1.

Positive control Human pancreas and kidney tissues.

General notesThe Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C.

Storage buffer pH: 7.4

Preservative: 0.1% Sodium azide

Constituent: 99% PBS

Purity Immunogen affinity purified

Clonality Polyclonal

Isotype IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab140977 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes	
IHC-P	★★★★☆ (2)	Use a concentration of 15 - 20 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.	

Target

Function In	nportant in metal trans	nsport, in particular iron. C	Can also transport manganese,	cobalt, cadmium,

nickel, vanadium and lead. Involved in apical iron uptake into duodenal enterocytes. Involved in iron transport from acidified endosomes into the cytoplasm of erythroid precursor cells. May play

an important role in hepatic iron accumulation and tissue iron distribution.

Tissue specificity Ubiquitously expressed. Isoform 1 is highly expressed in brain. Isoform 2 is highly expressed in

spleen, thymus and pancreas. Isoform 3 and isoform 4 are abundantly expressed in duodenum

and kidney.

Involvement in disease Defects in SLC11A2 are a cause of hypochromic microcytic anemia (HCMA) [MIM:206100]. The

disease is characterized by an abnormal hemoglobin content in the erythrocytes which are reduced in size. It may be hereditary or acquired. Mutations in SLC11A2 are associated with progressive liver iron overload and normal to moderately elevated serum ferritin levels.

Sequence similarities Belongs to the NRAMP family.

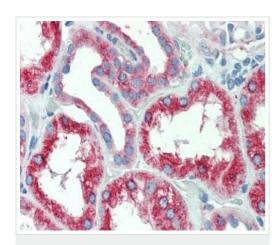
Post-translational

modifications

Ubiquitinated by WWP2.

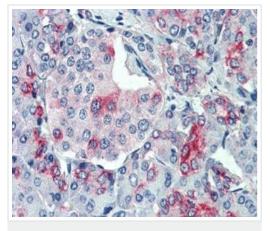
Cellular localization Endosome membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-DMT1 antibody (ab140977)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human kidney tissue labeling DMT1 with ab140977 at 20 μ g/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-DMT1 antibody (ab140977)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human pancreas tissue labeling DMT1 with ab140977 at 20 µg/ml.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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