



## Rabbit Anti-DMT1 antibody

SL3577R

<b>Product Name:</b>	DMT1
<b>Chinese Name:</b>	金属离子转运体1抗体
<b>Alias:</b>	DCT 1; DCT1; Divalent metal transporter 1; DMT 1; DMT1; Natural resistance associated macrophage protein 2; NRAMP 2; NRAMP2; NRAM2_HUMAN.
<b>文献引用</b> <b>PubMed</b> :	<p><b>Specific References(2)</b> SL3577R has been referenced in 2 publications.</p> <p><b>[IF=3.70]</b>Zhang, Ying, et al. "Calcium channel blockers ameliorate iron overload-associated hepatic fibrosis by altering iron transport and stellate cell apoptosis." Toxicology and Applied Pharmacology (2016).<b>WB;Mouse.</b>  <a href="#">PubMed:27095094</a></p> <p><b>[IF=2.10]</b>Zhang, L. Y., et al. "Effect of iron source on iron absorption and gene expression of iron transporters in the ligated duodenal loops of broilers." Journal of Animal Science (2017).<b>WB;Chicken.</b>  <a href="#">PubMed:28464091</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Cow,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	62kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human DMT1:251-350/568

<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>DMT1 is a major transporter of ferrous iron from the intestinal lumen. DMT1 belongs to the family of NRAMP metal ion transporters which function in diverse organisms from bacteria to human. DMT1 (NRAMP2) transports metal ions at the plasma membrane of cells of both the duodenum and in peripheral tissues, and defective DMT1 causes anaemia.</p> <p><b>Function:</b> Actin-bundling protein. May function in mitogen-activated protein kinase pathway.</p> <p><b>Subcellular Location:</b> Cytoplasm.</p> <p><b>Tissue Specificity:</b> Heart, brain, lung, skeletal muscle, and kidney.</p> <p><b>Post-translational modifications:</b> Actin-bundling activity is abolished upon phosphorylation by cAMP-dependent protein kinase.</p> <p><b>Similarity:</b> Belongs to the villin/gelsolin family. Contains 1 HP (headpiece) domain.</p> <p><b>SWISS:</b> P49281</p> <p><b>Gene ID:</b> 4891</p> <p><b>Database links:</b>  <a href="#">Entrez Gene: 4891</a>Human  <a href="#">Entrez Gene: 18174</a>Mouse  <a href="#">Oimim: 600523</a>Human  <a href="#">SwissProt: P49281</a>Human  <a href="#">SwissProt: P49282</a>Mouse</p>

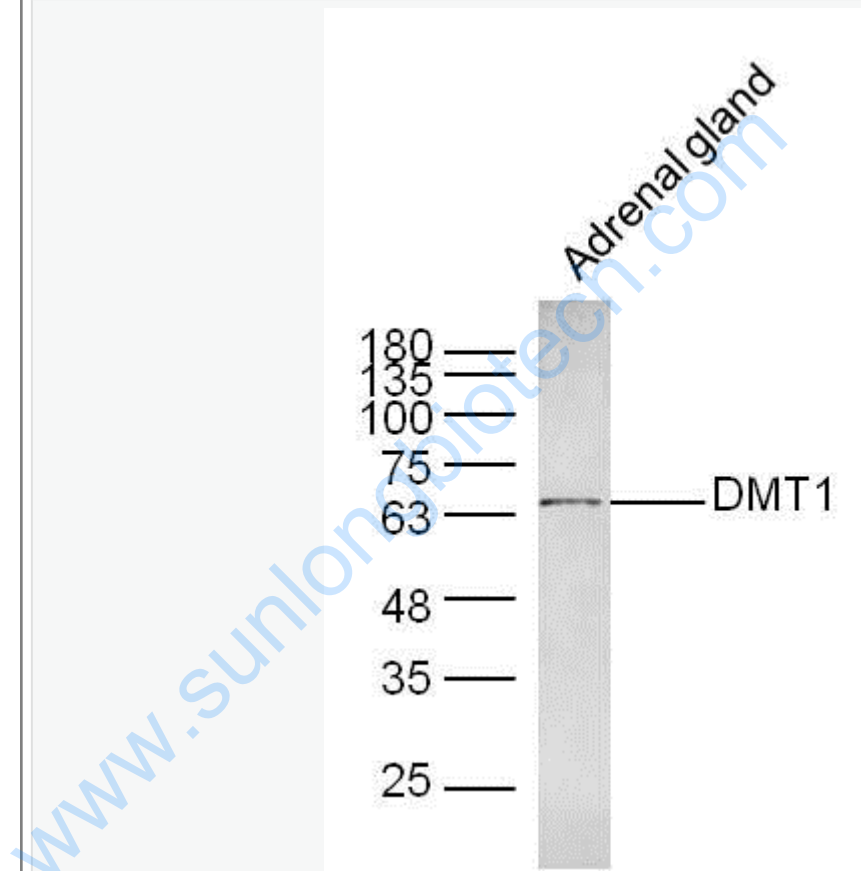
[Unigene: 505545](#)Human

[Unigene: 234608](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



Sample:

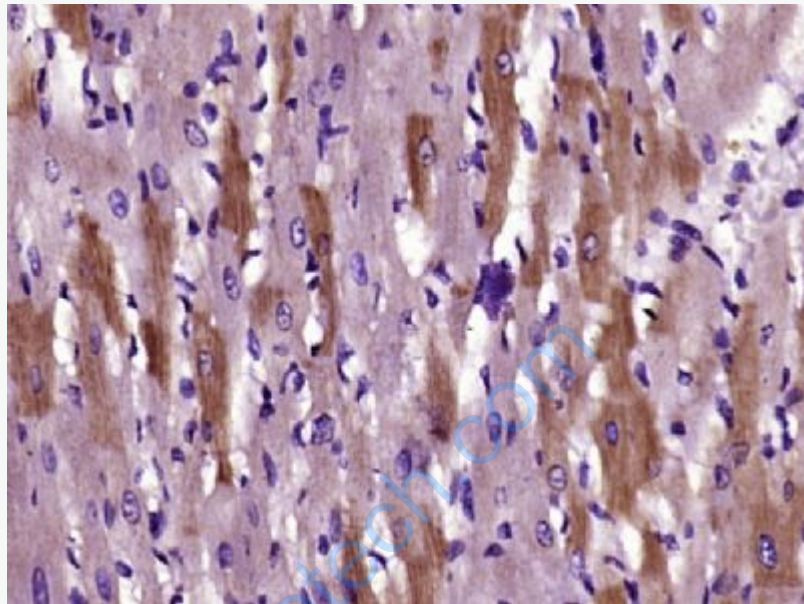
Adrenal glands (Mouse) Lysate at 40 ug

Primary: Anti-DMT1 (SL3577R) at 1/300 dilution

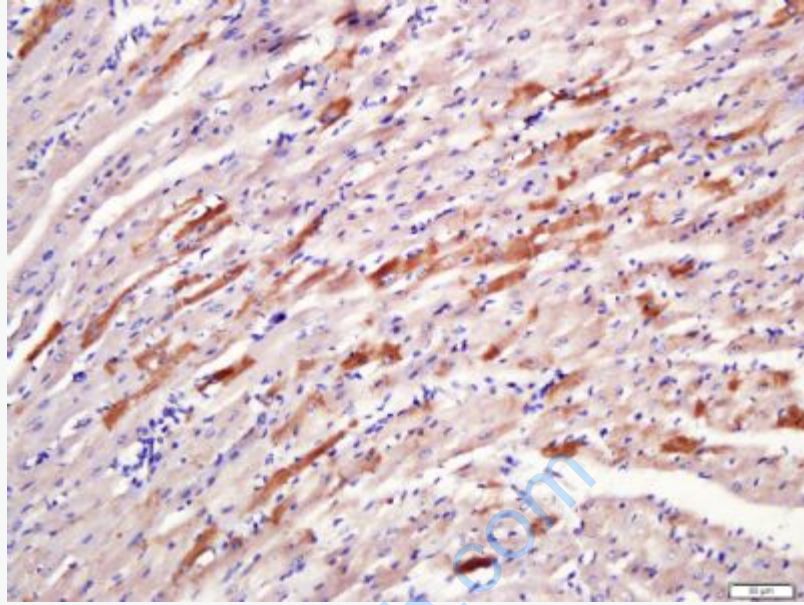
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 62 kD

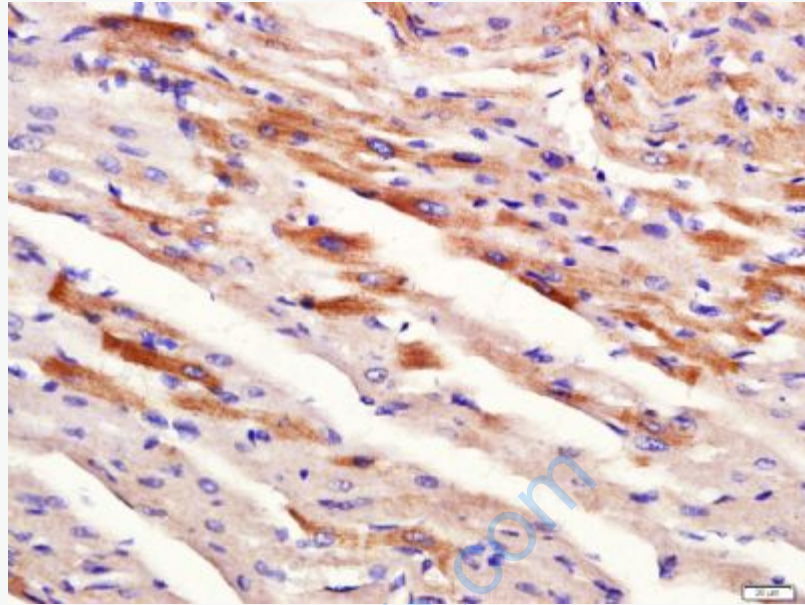
Observed band size: 64 kD



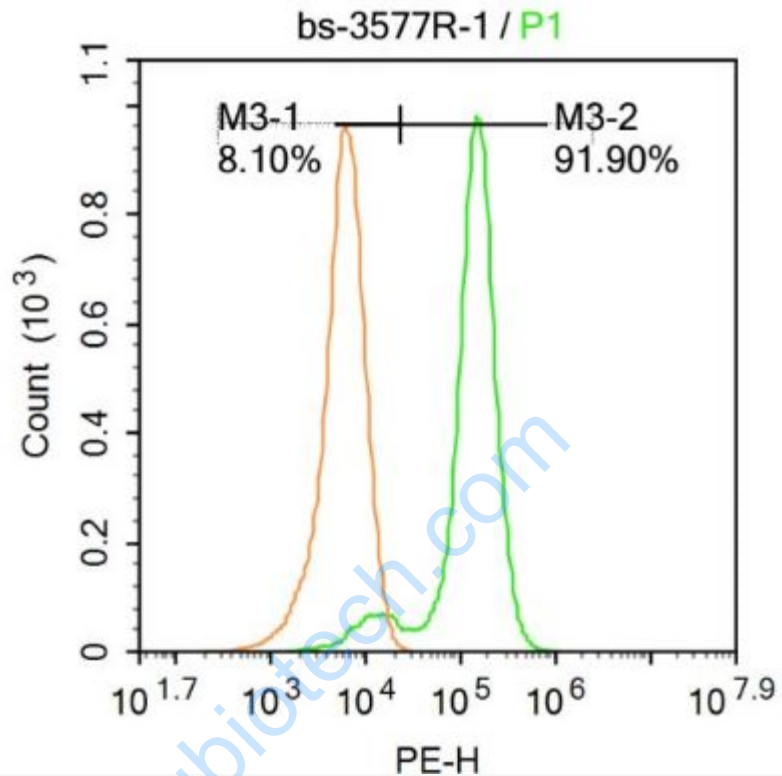
Paraformaldehyde-fixed, paraffin embedded (Rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DMT1) Polyclonal Antibody, Unconjugated (SL3577R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Divalent metal transporter 1; DMT1) Polyclonal Antibody, Unconjugated (SL3577R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.



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Blank control: Molt-4.

Primary Antibody (green line): Rabbit Anti-DMT1 antibody (SL3577R)

Dilution:  $1\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

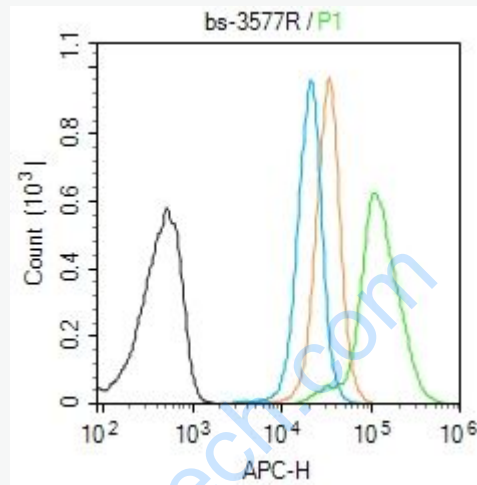
Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution:  $1\mu\text{g} / \text{test}$ .

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 20% PBST for 20 min at  $-20^\circ\text{C}$ . The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature.

The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control (Black line): Molt4 (Black).

Primary Antibody (green line): Rabbit Anti-DMT1 antibody (SL3577R)

Dilution: 3 $\mu$ g /10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647

Dilution: 3 $\mu$ g /test.

#### Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.



	Acquisition of 20,000 events was performed.
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