### bs-3577R

- DATASHEET -

## [ Primary Antibody ]

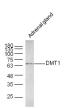
# DMT1 Rabbit pAb



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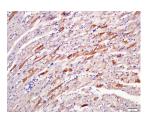
| DITITIONEL  | ·      |                     |  |
|---|--------|---------------------|--|
| Host:   | Rabbit | <b>lsotype:</b> IgG | Applications: WB (1:500-2000)                            |
| Clonality: Polyclonal   |        |                     | IHC-P (1:100-500)<br>IHC-F (1:100-500)                   |
| GenelD:   | 4891   | SWISS: P49281       | <b>IF</b> (1:100-500)                                    |
| <b>Target:</b> DMT1<br>Immunogen: KLH conjugated synthetic peptide derived from human DMT1:<br>251-350/568.   |        |                     | <b>Reactivity:</b> Mouse, Rat<br>(predicted: Human, Cow) |
| <b>Purification:</b> affinity purified by Protein A<br><b>Concentration:</b> 1mg/ml   |        |                     | Predicted<br>MW.: <sup>62 kDa</sup>                      |
| <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50%<br>Glycerol.<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated<br>freeze/thaw cycles.  |        |                     | Subcellular<br>Location: <sup>Cytoplasm</sup>            |
| <b>Background:</b> DMT1 is a major transporter of ferrous iron from the intestinal<br>lumen. DMT1 belongs to the family of NRAMP metal ion transporters<br>which function in diverse organisms from bacteria to human. DMT1 |        |                     |  |

### - VALIDATION IMAGES



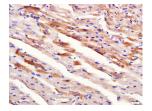
causes anaemia.

Sample: Adrenal glands (Mouse) Lysate at 40 ug Primary: Anti-DMT1 (bs-3577R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 62 kD Observed band size: 64 kD



(NRAMP2) transports metal ions at the plasma membrane of cells of both the duodenum and in peripheral tissues, and defective DMT1

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 (bs-3577R) 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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#### - SELECTED CITATIONS -

- [IF=13] Ximing Yang. et al. A dual absorption pathway of novel oyster-derived peptide-zinc complex enhances zinc bioavailability and restores mitochondrial function. J ADV RES. 2025 Feb;: WB ;Human. 39955018
- [IF=10.787] Limin Shi. et al. FoxO1 regulates adipose transdifferentiation and iron influx by mediating Tgfβ1 signaling pathway. REDOX BIOL. 2023 Jul;63:102727 WB ;Mouse. 37156218
- [IF=8.1] Chen Wang. et al. Microbial metabolite deoxycholic acid-mediated ferroptosis exacerbates high-fat dietinduced colonic inflammation. MOL METAB. 2024 Apr;:101944 WB ;Rat. 38642891
- [IF=6.543] Zhang Hongxia. et al. Hepcidin Promoted Ferroptosis through Iron Metabolism which Is Associated with DMT1 Signaling Activation in Early Brain Injury following Subarachnoid Hemorrhage. Oxid Med Cell Longev.

2021;2021:9800794 WB,IF ;Rat. 34987706

• [IF=5.959] Zhang C et al. "Iron free" zinc oxide nanoparticles with ion-leaking properties disrupt intracellular ROS and iron homeostasis to induce ferroptosis. Cell Death Dis. 2020 Mar 13;11(3):183. WB ;mouse. 32170066