bs-3577R

- DATASHEET -

[Primary Antibody]

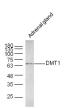
DMT1 Rabbit pAb



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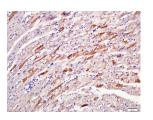
DITITIONEL	·		
Host:	Rabbit	lsotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal			IHC-P (1:100-500) IHC-F (1:100-500)
GenelD:	4891	SWISS: P49281	IF (1:100-500)
Target: DMT1 Immunogen: KLH conjugated synthetic peptide derived from human DMT1: 251-350/568.			Reactivity: Mouse, Rat (predicted: Human, Cow)
Purification: affinity purified by Protein A Concentration: 1mg/ml			Predicted MW.: ^{62 kDa}
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.			Subcellular Location: ^{Cytoplasm}
Background: 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			

- VALIDATION IMAGES



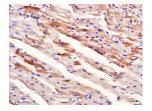
causes anaemia.

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.



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.

- 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
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- [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.

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• [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