

## ZnT-1 Rabbit pAb

Catalog Number: bs-6440R

Target Protein: ZnT-1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), ELISA (1:5000-10000)

Reactivity: Human, Mouse, Rat (predicted:Pig, Cow, Dog)

Predicted MW: 55 kDa

Entrez Gene: 7779

Swiss Prot: Q9Y6M5

Source: KLH conjugated synthetic peptide derived from human ZnT-1: 131-330/507.

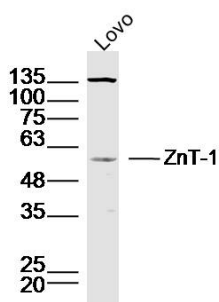
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

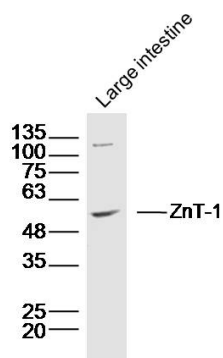
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Zinc, an essential element required for cell proliferation and differentiation, plays a role in a diverse array of cellular functions, including acting as a cofactor for numerous enzymes and transcription factors and as a neuroregulator. The zinc transporter (ZnT) family regulates the supply of zinc within cells, and its members are characterized by containing six membrane-spanning domains, a large histidine-rich intracellular loop, and a C-terminal tail. ZnT-1, a ubiquitous protein, localizes to the plasma membrane to aid in the export of zinc out of cells.

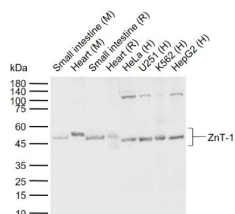
### VALIDATION IMAGES



Sample: Lovo cell (human) Lysate at 40 ug Primary: Anti- ZnT-1(bs-6440R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55kD Observed band size: 55kD



Sample: Large intestine (mouse) Lysate at 40 ug Primary: Anti- ZnT-1(bs-6440R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55kD Observed band size: 55kD



Sample: Lane 1: Mouse Small intestine tissue lysates Lane 2: Mouse Heart tissue lysates Lane 3: Rat Small intestine tissue lysates Lane 4: Rat Heart tissue lysates Lane 5: Human HeLa cell lysates Lane 6: Human U251 cell lysates Lane 7: Human K562 cell lysates Lane 8: Human HepG2 cell lysates Primary: Anti-ZnT-1 (bs-6440R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kDa Observed band size: 50 kDa

## PRODUCT SPECIFIC PUBLICATIONS

[IF=6.543] Xiao Chuanpi. et al. High Temperature-Induced Oxidative Stress Affects Systemic Zinc Homeostasis in Broilers by Regulating Zinc Transporters and Metallothionein in the Liver and Jejunum. *Oxid Med Cell Longev*. 2022;2022:1427335 WB ; Broiler Chicks . 35387265

[IF=4.1] Dr. Sakura Uto. et al. Subcutaneously Transplanted Fresh Cartilage in Allogeneic and Xenogeneic Immunocompetent Mouse. *Tissue Engineering Part A*. 2023 Aug 07 IHC ; Mouse . 37548556

[IF=3.6] Deniz Billur. et al. An increase in intercellular crosstalk and electrotonic coupling between cardiomyocytes and nonmyocytes reshapes the electrical conduction in the metabolic heart characterized by short QT intervals in ECGs. *CELL BIOCHEM FUNCT*. 2023 Nov;; IF ; Rat . 38014767

[IF=3.9] Zhang Menghui. et al. Effects of Zinc Combined with Metformin on Zinc Homeostasis, Blood-Epididymal Barrier, and Epididymal Absorption in Male Diabetic Mice. *BIOL TRACE ELEM RES*. 2024 Apr;;1-14 WB ; Mouse . 38589680

[IF=3.4] Li Yuejia. et al. Zinc Attenuates Bisphenol A-Induced Reproductive Toxicity in Male Mice by Inhibiting Ferroptosis and Apoptosis Through Improving Zinc Homeostasis. *BIOL TRACE ELEM RES*. 2024 Dec;;1-13 WB ; MOUSE . 39645636