bs-6440R **[Primary Antibody]**

ZnT-1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7779 **SWISS:** Q9Y6M5

Target: ZnT-1

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

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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.

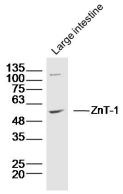
Applications: **WB** (1:500-2000)
ELISA (1:5000-10000)

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

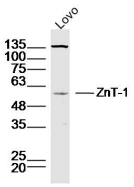
Predicted MW.: 55 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



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: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

SELECTED CITATIONS

- **[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

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

Ferroptosis and Apoptosis Through Improving Zinc Homeostasis. BIOL TRACE ELEM RES. 2024 Dec;:1-13 WB ;Mouse. 39645636

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