

ZIP10 Antibody

ZIP10: Solute carrier family 39 member a10, Slc39a10, LZT-Hs2

CATALOG No.: 4991

BACKGROUND:

ZIP10, also known as Slc39A10, is a widely expressed zinc transporter with nine transmembrane domains (1). Zinc is an essential ion for cells and plays significant roles in the growth, development, and differentiation (reviewed in 2). ZIP10 mRNA was found to be significantly decreased in the intestines and kidneys of hypothyroid rats and increased in those of hyperthyroid rats, indicating that ZIP10 is positively regulated by thyroid hormones (3). ZIP10 mRNA was also found to be upregulated in invasive and metastatic breast cancer and cell lines, suggesting that ZIP10 could serve as a possible marker for the metastatic phenotype and possibly a target for novel treatment strategies (4). At least three isoforms of ZIP10 are known to exist. This antibody will not cross-react with the zinc transporter ZIP11.

SOURCE:

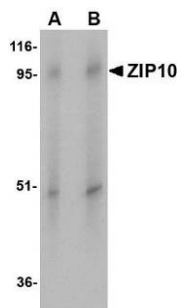
Rabbit polyclonal ZIP10 antibody was raised against a 17 amino acid peptide near the center of the human ZIP10 (GenBank accession no. EDL99073).

APPLICATION:

ZIP10 antibody can be used for detection of ZIP10 by Western blot at 1 – 2 µg/ml. (Optimal dilution should be determined by user.) Human spleen tissue cell lysate can be used as positive control. ZIP10 antibody is human, mouse and rat reactive. **For research use only.**

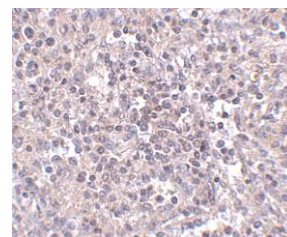
STORAGE:

ZIP10 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of ZIP10 in human spleen tissue lysate with ZIP10 antibody at (A) 1 and (B) 2 µg/ml.

Immunohistochemistry of ZIP10 in human spleen tissue with ZIP10 antibody at 2.5 µg/ml.



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **4991P**.
Human Spleen Tissue Lysate, Catalog No. **1306**.
ZIP11 Antibody, Catalog No. **5001**.
Slc22A17 Antibody, Catalog No. **4651**.
Slc12A2 Antibody, Catalog No. **XW-8138**.
Slc26A3 Antibody, Catalog No. **XW-8140**.

REFERENCES:

1. Kaler P and Prasad R. Molecular cloning and functional characterization of novel transporter rZip10 (Slc39a10) involved in zinc uptake across renal brush-border membrane. *Am. J. Renal Physiol.* 2007; 292:F217-29.
2. Taylor KM and Nicholson RI. The LZT proteins; the LIV-1 subfamily of zinc transporters. *Biochim. Biophys. Acta.* 2003; 1611:16-30.
3. Pawan K, Neeraj S, Sandeep K, et al. Upregulation of Slc39a10 gene expression in response to thyroid hormones in intestine and kidney. *Biochim. Biophys. Acta.* 2007; 1769:117-23.
4. Kagara N, Tanaka N, Noguchi S, et al. Zinc and its transporter ZIP10 are involved in invasive behavior of breast cancer cells. *Cancer Sci.* 2007; 98:692-7. (09-01D)

12170 Flint Place
Poway, CA 92064
www.prosci-inc.com



Toll Free: 888-513-9525

Tel: 858-513-2638

Fax: 858-513-2692

techsupport@prosci-inc.com
