ZIP10 Antibody

Cat. No.: 4991

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

Immunohistochemistry of ZIP10 in human spleen tissue with ZIP10 antibody at 2.5 ug/mL.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>HOST SPECIES:</th>
<th>Rabbit</th>
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<tbody>
<tr>
<td>SPECIES REACTIVITY:</td>
<td>Human, Mouse, Rat</td>
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<tr>
<td>IMMUNOGEN:</td>
<td>ZIP10 antibody was raised against a 17 amino acid synthetic peptide near the center of the human ZIP10. The immunogen is located within amino acids 490 - 540 of ZIP10.</td>
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<td>TESTED APPLICATIONS:</td>
<td>ELISA, IHC-P, WB</td>
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<td>APPLICATIONS:</td>
<td>ZIP10 antibody can be used for detection of ZIP10 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. Antibody validated: Western Blot in human samples and Immunohistochemistry in human samples. All other applications and species not yet tested.</td>
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<td>SPECIFICITY:</td>
<td>This antibody will not cross-react with the zinc transporter ZIP11.</td>
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<td>POSITIVE CONTROL:</td>
<td>1) Cat. No. 1306 - Human Spleen Tissue Lysate</td>
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<td>2) Cat. No. 10-901 - Human Spleen Tissue Slide</td>
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### Properties

**Purification:** ZIP10 Antibody is affinity chromatography purified via peptide column.

**Clonality:** Polyclonal

**Isotype:** IgG

**Conjugate:** Unconjugated

**Physical State:** Liquid

**Buffer:** ZIP10 Antibody is supplied in PBS containing 0.02% sodium azide.

**Concentration:** 1 mg/mL

**Storage Conditions:** ZIP10 antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

### Additional Info

**Official Symbol:** Slc39a10

**Alternate Names:** ZIP10 Antibody:

**Accession No.:** EAW70116

**Protein GI No.:** 149046180

**Gene ID:** 363229

**User Note:** Optimal dilutions for each application to be determined by the researcher.

### Background and References

**Background:** ZIP10 Antibody: ZIP10, also known as Slc39A10, is a widely expressed zinc transporter with nine transmembrane domains. Zinc is an essential ion for cells and plays significant roles in the growth, development, and differentiation. 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. 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. At least three isoforms of ZIP10 are known to exist.

**References:**


### Antibodies for Research Use Only.

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