**Anti-Vacuolar Zn2+/H+ antiporter antibody**

**Catalog:** PHY0186S

**Product Information**

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| **Description:** | Rabbit polyclonal antibody |
| **Background:** | MTP1 is localized to the vacuolar membrane, it is mediating zinc accumulation in roots and resistance to zinc. |
| **Synonyms:** | MTP1, A. THALIANA CATION DIFFUSION FACILITATOR 1, ATCDF1, ATMTP1, METAL TOLERANCE PROTEIN 1, MTP1, OVERLY ZINC SENSITIVE 1, OZS1, ZAT, ZAT1, ZINC TRANSPORTER OF ARABIDOPSIS THALIANA, ZINC TRANSPORTER OF ARABIDOPSIS THALIANA 1 |
| **Immunogen:** | KLH-conjugated synthetic peptide (16 aa from Central section) derived from *Arabidopsis thaliana* MTP1 (AT2G46800).  |
| **Form:** | Lyophilized |
| **Quantity:** | 150 µg |
| **Purification:** | SerumPeptide affinity form antibody available upon request at info@phytoab.com. |
| **Reconstitution:** | Reconstitution with 150 µl of sterile water."Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".  |
| **Stability & Storage:** | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.12 months from date of receipt, -20 to -70℃ as supplied.6 months, -20 to -70℃ under sterile conditions after reconstitution.1 month, 2 to 8℃ under sterile conditions after reconstitution. |
| **Shipping:** | The product is shipped at 4℃. Upon receipt, store it immediately at the temperature recommended above. |

**Application Information**

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| **Recommended Dilution:** | Western Blot (1:1000-1:2000)Note: Optimal dilutions/concentrations should be determined by the end user. |
| **Expected / apparent MW:** | 44 kDa |
| **Predicted Reactivity:** | Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Brassica napus, Brassica rapa.*For more species homologues information, please contact tech support at tech@phytoab.com. |

**Application Example**

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Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 52 kDa.

**Electrophoresis:** 12% SDS-PAGE

**Transfer:** blotting to NC (nitrocellulose) membrane for 1 h.

**Blocking:** 5% skim milk at RT or 4℃ for 1 h.

**Primary antibody:** 1:1000 dilution overnight at 4℃.

**Secondary antibody:** 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were captured with CCD camera.