

## Anti-L-ascorbate peroxidase antibody

Catalog: PHY2790S

## **Product Information**

| Description:           | Rabbit polyclonal antibody   |  |
|------------------------|--|--|
| Background:            | Ascorbate peroxidases are enzymes that scavenge hydrogen peroxide in plant         |  |
|                        | cells. Eight types of APX have been described for Arabidopsis: three cytosolic     |  |
|                        | (APX1 (AT1G07890), APX2 (AT3G09640), APX6 (AT4G32320)), two                        |  |
|                        | chloroplastic types (stromal sAPX (AT4G08390), thylakoid tAPX (AT1G77490)),        |  |
|                        | and three microsomal (APX3 (AT4G35000), APX4 (AT4G09010), APX5                     |  |
|                        | (AT4G35970)) isoforms.   |  |
| Synonyms:              | TAPX, THYLAKOIDAL ASCORBATE PEROXIDASE   |  |
| Immunogen:             | KLH-conjugated synthetic peptide (16 aa from C terminal section) derived from      |  |
|                        | Arabidopsis thaliana TAPX (AT1G77490).   |  |
| Form:                  | Lyophilized  |  |
| Quantity:              | 150 μg   |  |
| Purification:          | Serum  |  |
|                        | Peptide affinity form antibody available upon request at <u>info@phytoab.com</u> . |  |
| <b>Reconstitution:</b> | 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 &            | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.                |  |
| Storage:               | 12 months from date of receipt, -20 to -70°C as supplied.                          |  |
|                        | 6 months, -20 to -70°C under sterile conditions after reconstitution.              |  |
|                        | 1 month, 2 to 8°C under sterile conditions after reconstitution.                   |  |
| Shipping:              | The product is shipped at $4^{\circ}$ C. Upon receipt, store it immediately at the |  |
|                        | temperature recommended above.   |  |
|                        |  |  |

## **Application Information**

| <b>Recommended Dilution:</b> | Western Blot (1:1000-1:5000)                                       |
|------------------------------|--|
|                              | Note: Optimal dilutions/concentrations should be determined by the |
|                              | end user.  |
| Expected / apparent MW:      | 46 / 38 kDa  |

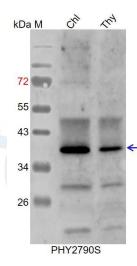


Confirmed Reactivity: Predicted Reactivity: Arabidopsis thaliana

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica rapa*, *Brassica napus*, and 80-99% homologues with the sequence in *Solanum lycopersicum, Sorghum bicolor, Panicum virgatum, Setaria viridis, Oryza sativa, Glycine max, Zea mays, Populus trichocarpa, Spinacia oleracea, Nicotiana tabacum, Solanum tuberosum, Solanum lycopersicum, Hordeum vulgare, Triticum aestivum, Medicago truncatula.* For more species homologues information, please contact tech

support at tech@phytoab.com.

## **Application Example**



Chl: 80 µg total chloroplast protein from Arabidopsis thaliana.

Thy: thylakoid membrane protein from *Arabidopsis thaliana* containing 2.5 µg of chlorophyll.

Electrophoresis: 15% SDS-PAGE

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

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

Primary antibody: 1:5000 dilution overnight at 4°C.

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

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

PhytoAB Inc.

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