

# Anti-NADPH-dependent thioredoxin reductase antibody

Catalog: PHY0792S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	NADPH thioredoxin reductase is involved in chloroplast protection against oxidative damage. Chloroplast NADPH-thioredoxin reductase (NTRC, AT2G41680) belongs to the thioredoxin systems that control crucial metabolic and regulatory pathways in plants.
<b>Synonyms:</b>	NTRC, NTR, NADPH-DEPENDENT THIOREDOXIN REDUCTASE C
<b>Immunogen:</b>	KLH-conjugated synthetic peptide of NTRC derived from <i>Arabidopsis thaliana</i> AT2G41680.
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Serum Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> .
<b>Reconstitution:</b>	Reconstitution with 150µl 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".
<b>Stability &amp; Storage:</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

<b>Applications:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected Results:</b>	58 / 60 kDa
<b>Confirmed Reactivity:</b>	<i>Arabidopsis thaliana</i>

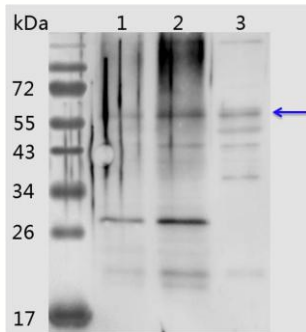
Research Use Only

### Predicted Reactivity:

Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Zea mays*.

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

### Application Example



Lane 1: 20 µg total protein from *Arabidopsis thaliana* leaf.

Lane 2: 50 µg total protein from *Arabidopsis thaliana* leaf.

Lane 3: 6 µg stromal protein from *Arabidopsis thaliana* leaf.

**Electrophoresis:** 12% SDS-Urea-PAGE

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

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

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**Primary antibody:** 1:1000 dilution overnight at 4°C.

**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.