

Anti-FNR1 antibody

Catalog: PHY2737A

Product Information

Description:	Rabbit polyclonal antibody
Background:	FNR1 is a leaf-type ferredoxin-NADP ⁺ oxidoreductase. It is located in both the chloroplast stroma and thylakoid membrane, but is more abundant in the thylakoid. It mediates electron transfer from ferredoxin to NADP ⁺ , and is essential for attaching FNR2 to the thylakoid membrane.
Synonyms:	FNR1, ATLFNR1, FERREDOXIN-NADP(+)-OXIDOREDUCTASE 1, LEAF FNR 1, LEAF-TYPE CHLOROPLAST-TARGETED FNR 1, LFNR1
Immunogen:	KLH-conjugated synthetic peptide (15 aa from central section) derived from <i>Arabidopsis thaliana</i> FNR1 (AT5G66190).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol. "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°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°C. Upon receipt, store it immediately at the temperature recommended above.

Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	36 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica</i>

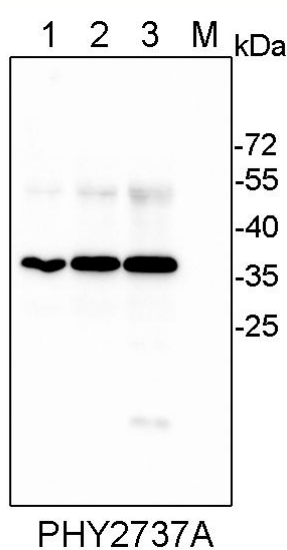
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napus, *Brassica rapa*, *Oryza sativa*, *Populus trichocarpa*, *Triticum aestivum*, *Glycine max*, and 80-99% homologues with the sequence in *Zea mays*, *Vitis vinifera*, *Cucumis sativus*, *Spinacia oleracea*, *Gossypium raimondii*, *Sorghum bicolor*, *Hordeum vulgare*, *Medicago truncatula*, *Panicum virgatum*, *Setaria viridis*.

The sequence of the synthetic peptide used for immunization is 89% homologues with the sequence in FNR2 (AT1G20020).

For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example



Lane 1: 12.5 µg Arabidopsis thylakoid membrane protein

Lane 2: 25 µg Arabidopsis thylakoid membrane protein

Lane 3: 50 µg Arabidopsis thylakoid membrane protein

Electrophoresis: 12.5% 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: 1:1000 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.