

Anti-ZmCYP37 antibody

Catalog: PHY6733

Product Information

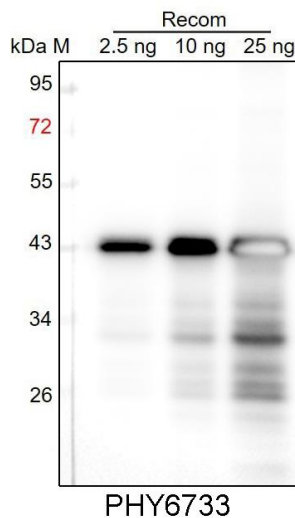
Description:	Rabbit polyclonal antibody
Background:	CYP37 is a chloroplastic peptidyl-prolyl cis-trans isomerase (PPIase) that localizes to the thylakoid lumen. It catalyzes protein folding via prolyl isomerization and maintains photosynthetic electron transport under high light conditions.
Synonyms:	CYP37
Immunogen:	Recombinant protein (92-439 aa) derived from <i>Zea mays</i> CYP37 (Zm00001eb107080).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Protein A 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:	47 kDa
Predicted Reactivity:	For more species homologues information, please contact tech support at tech@phytoab.com .

Research Use Only

Application Example



Recom: 2.5 ng, 10 ng and 25 ng CYP37 recombinant protein having a molecular mass of 43 kDa.

Electrophoresis: 12% SDS-PAGE

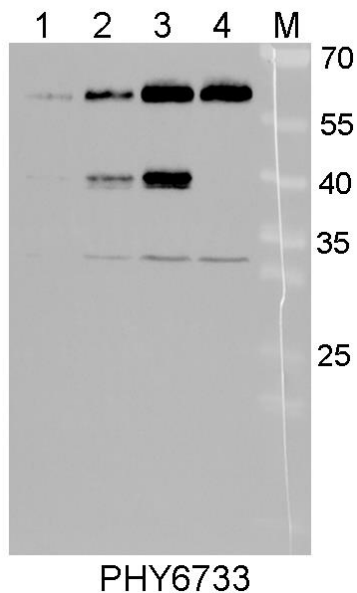
Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

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.



Lane 1: WT thylakoid membranes corresponding to 0.6 ug chlorophyll

Lane 2: WT thylakoid membranes corresponding to 1.2 ug chlorophyll

Lane 3: WT thylakoid membranes corresponding to 2.5 ug chlorophyll

Lane 4: *cyp37* mutant thylakoids corresponding to 2.5 ug chlorophyll

Electrophoresis: 15% SDS-urea-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.