

Anti-Chlorophyll a-b binding protein 2, chloroplastic, N-terminal antibody

Catalog: PHY3287S

Product Information

Description:	Rabbit polyclonal antibody
Background:	<p>The light-harvesting chlorophyll a/b-binding proteins of photosystem II (LHCII) are the major components of the photosynthetic machinery in plants which contain more than 60% of plant chlorophyll.</p> <p>The LHCII proteins can be grouped into six subfamilies (Lhcb1-6) which are encoded by LHC gene family, Lhcb1, Lhcb2 and Lhcb3 are the major pigment-binding proteins which are encoded by Lhcb1, Lhcb2 and Lhcb3 genes, respectively. Lhcb1, Lhcb2 and Lhcb3 polypeptides each with about 232 amino acid residues are similar in sequence, Lhcb1-3 precursors are synthesized in cytoplasm and following transport into chloroplasts inserted into thylakoid membranes structure and function. Lhcb1 and Lhcb2 are the most abundant proteins in the light harvesting antenna complex.</p>
Synonyms:	Lhcb2, Lhcb2.1/2.2/2.3
Immunogen:	KLH-conjugated synthetic peptide (14 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> Lhcb2.1 (AT2G05100), Lhcb2.2 (AT2G05070), and Lhcb2.3 (AT3G27690).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum Peptide affinity form antibody available upon request at info@phytoab.com .
Reconstitution:	<p>Reconstitution with 150 µl of sterile water.</p> <p>"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".</p>
Stability & Storage:	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <p>12 months from date of receipt, -20 to -70°C as supplied.</p> <p>6 months, -20 to -70°C under sterile conditions after reconstitution.</p> <p>1 month, 2 to 8°C under sterile conditions after reconstitution.</p>
Shipping:	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

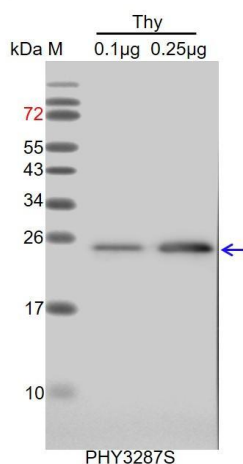
Research Use Only

Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000)
	Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	29 / 25 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica napus</i> , <i>Brassica rapa</i> , <i>Vitis vinifera</i> , and 80-99% homologues with the sequence in <i>Hordeum vulgare subsp. vulgare</i> , <i>Solanum tuberosum</i> , <i>Solanum lycopersicum</i> , <i>Cucumis sativus</i> , <i>Nicotiana tabacum</i> , <i>Glycine max</i> , <i>Populus trichocarpa</i> , <i>Oryza sativa Japonica Group</i> , <i>Panicum virgatum</i> , <i>Sorghum bicolor</i> , <i>Setaria viridis</i> , <i>Triticum aestivum</i> , <i>Medicago truncatula</i> , <i>Zea mays</i> , <i>Spinacia oleracea</i> , <i>Physcomitrium patens</i> , <i>Gossypium raimondii</i> .
	For more species homologues information, please contact tech support at tech@phytoab.com .

Application Example

Example 1



Thy: Thylakoid membrane protein from *Arabidopsis thaliana* leaf containing 0.1 µg and 0.25µg of chlorophyll, respectively.

Electrophoresis: 15% SDS-PAGE

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

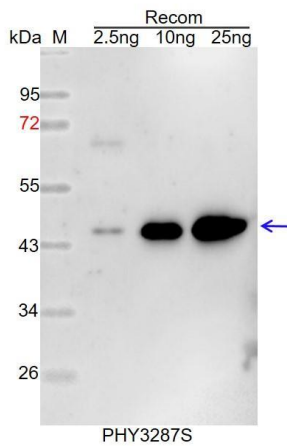
Blocking: 5% skim milk at RT or 4°C for 1 h.

Primary antibody: 1:2000 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.

Example2



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 48 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.