

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

Catalog: PHY3288A

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, LHCB2, LHCB2.1/2.2/2.3, LIGHT-HARVESTING CHLOROPHYLL B-BINDING 2, PHOTOSYSTEM II LIGHT HARVESTING COMPLEX GENE 2.1/2.2/2.3
Immunogen:	KLH-conjugated synthetic peptide (13 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> Lhcb2.1 (AT2G05100), Lhcb2.2 (AT2G05070), and Lhcb2.3 (AT3G27690).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	<p>Reconstitution with 150 µl of sterile 1XPBS (PH=7.4).</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

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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:	29 kDa
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> , and 80-99% homologues with the sequence in <i>Hordeum vulgare</i> , <i>Triticum aestivum</i> , <i>Medicago truncatula</i> , <i>Nicotiana tabacum</i> , <i>Spinacia oleracea</i> , <i>Solanum lycopersicum</i> , <i>Solanum tuberosum</i> , <i>Cucumis sativus</i> . For more species homologues information, please contact tech support at tech@phytoab.com .