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Product no AS24 5034

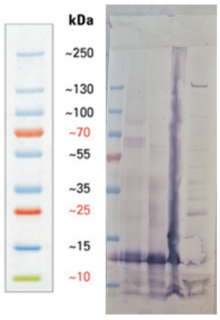
Anti- Lhcb1 | LHCII type I chlorophyll a/b-binding protein

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* Lhcb1 protein sequence of Lhcb1 isoforms 1-5. Chosen peptide is conserved in monocotyl Lhcb1 protein sequences. Lhcb1.1 UniProt: P0CJ48-1, TAIR: AT1G29920 Lhcb1.2 UniProt: Q8VZ87-1, TAIR: AT1G29910 Lhcb1.3 UniProt: P04778-1, TAIR: AT1G2993 Lhcb1.4 UniProt: Q39142-1, TAIR: AT2G34430 Lhcb1.5 UniProt: Q39141-1, TAIR: At2g34420 The peptide is conserved in several di and monocotyl Lhcb1 proteins.
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution, add 50 µl of sterile or deionized water.
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Application information

Recommended dilution	1 : 500 - 1: 5000 (WB)
Expected | apparent MW	28 | 25 kDa
Confirmed reactivity	*Arabidosis thaliana, Hordeum vulgare, Zea mays*
Predicted reactivity	*Arachis hypogaea, Brassica napus, Camellia sinensis, Chlamydomonas reinhardii, Hordeum vulgare, Mesembryanthemum crystallinum, Nicotiana tabacum, Oryza sativa, Pisum sativum, Phaseolus vulgaris, Sinapsis alba, Spinacia oleracea, Triticum aestivum, Zea mays.* Species of your interest not listed? Contact us
Not reactive in	cyanobacteria
Selected references	To be added when available. Antibody released in May 2025.



Samples:

1 - MW marker
2 - 10 µg of *Zea mays* whole leaf extract
3 - 10 µg of *Hordeum vulgare* whole leaf extract
4 - 10 µg of thylakoid of *Arabidopsis thaliana*
5 - 10 µg of cyanobacterial whole cell extract (negative control)

10 µg/well of samples 1-5 were extracted and loaded in each well following denaturation with Invitrogen LDS sample buffer (4X) at 70°C/5 min. Samples were separated on Invitrogen NuPage Bis-Tris 4-12% SDS-PAGE and blotted for 1 h to Invitrogen PVDF (pore size of 0.45 um), using wet transfer. Blot was blocked with 5% nonfat milk in TBS-T for: 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 500 for 4ªC/ON in TBS-T Blocking. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG ALP conjugated, AS09 607 lot 2503) diluted to 1: 1 000 in TBS-T Blocking for 0,5h/RT with agitation. The blot was washed as above and developed with AS19 BCIP-NBT-PLUS lot 03088241 for 3min. As soon as the desired band is detectable, briefly wash the membrane in generous amounts of deionized water. Image was captured after 2h.

Note: for more sensitive detection method the antibody can be used in higher dilution and lower protein load/well, which will also contribute to lower background signal.
Courtesy Agrisera