product AS09 522
Lhcb1 | LHCII type I chlorophyll a/b-binding protein (Arabidopsis specific)

product information

**Background**
The major light-harvesting antenna complex II (LHCII) in photosynthetic eukaryotes is located in the thylakoid membrane of the chloroplast. It is a heterotrimeric complex formed by up to 3 different individual subtypes of chlorophyll a/b-binding proteins: Lhcb1, Lhcb2, and Lhcb3. **Lhcb1** is the most abundant chlorophyll a/b-binding protein in eukaryotic phototrophs and often is coded by several nuclear genes.

**Immunogen**
BSA-conjugated synthetic peptide derived from Arabidopsis thaliana At1g29910 (Lhcb1.1), At1g29920 (Lhcb1.2), At1g29930 (Lhcb1.3, most expressed), At2g34430 (Lhcb1.4), and At2g34420 (Lhcb1.5)

**Host**
Rabbit

**Clonality**
Polyclonal

**Purity**
Affinity purified serum

**Format**
Lyophilized in PBS pH 7.4

**Quantity**
100 µg

**Reconstitution**
For reconstitution add 100 µl of sterile 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.

**Tested applications**
Western blot (WB)

**Related products**
AS01 002 Lhcbo3 | LHCII type III chlorophyll a/b-binding protein
AS01 003 Lhcb2 | LHCII type II chlorophyll a/b-binding protein
LHC available antibodies against pigment-binding proteins
Plant protein extraction buffer
Secondary antibodies

**Additional information**

**Application information**

**Recommended dilution**
1 : 2500-1 : 5000 (WB)

**Expected | apparent MW**
28 | 25 kDa for Arabidopsis thaliana

**Confirmed reactivity**
Arabidopsis thaliana, Digitaria sanguinalis, Echinochloa crus-galli, Pinus strobus L.

**Predicted reactivity**
Algae, Dicots, Mosses

**Not reactive in**
No confirmed exceptions from predicted reactivity are currently known.

**Additional information**
This Lhcb1 antibody is directed specifically against the Arabidopsis Lhcb1 gene products, for those that would prefer higher specific activity over broader specificity offered by Agrisera older Lhcb1 antibody, **AS01 004**

Protein is processed into mature form (Jansson 1999).

**Selected references**


Wientjes et al (2013). LHCII is an antenna of both photosystems after long-term acclimation. BBA, Jan 6.