

Datasheet for ABIN93510  
**anti-Lhcb1 antibody**



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1 Image

10 Publications

### Overview

Quantity:	50 µg
Target:	Lhcb1 (lhcb1)
Reactivity:	Arabidopsis thaliana, Barley, Green bean, Nicotiana tabacum, Oryza sativa, Pisum sativum, Spinach, Zea mays
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Lhcb1 antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	BSA-conjugated synthetic peptide derived from a highly conserved sequence of Lhb1 proteins from angiosperms (monocots and dicots) and gymnosperms, including Arabidopsis thaliana At1g29910 (Lhcb1.1), At1g29920 (Lhcb1.2), At1g29930 (Lhcb1.3, most expressed), At1g34430 (Lhcb1.4), and At1g34420 (Lhcb1.5)
Characteristics:	Expected / apparent Molecular Weight of the Antigen: 25 / 25 kDa for Arabidopsis thaliana
Purification:	serum

### Target Details

Target:	Lhcb1 (lhcb1)
Alternative Name:	Lhcb1
Background:	AGI Code: At1g29910

## Target Details

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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. A molecular characterisation of the LHCII proteins can be found in Caffarri et al. (2004) A Look within LHCII: Differential Analysis of the Lhcb1-3 Complexes Building the Major Trimeric Antenna Complex of Higher-Plant Photosynthesis. *Biochemistry* 43 (29): 9467-9476

Molecular Weight: expected: 25 kDa, apparent: 25 kDa for *Arabidopsis thaliana*

UniProt: [P04777](#), [Q8VZ87](#), [P04778](#), [Q9C5R6](#), [Q39141](#)

## Application Details

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Application Notes: Recommended Dilution: 1 : 2000, detected with standard ECL (WB), 1 : 100 - 1 : 500 (IG).

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: For reconstitution add 10 µL of sterile water

Handling Advice: 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.  
Once reconstituted make aliquots to avoid repeated freeze-thaw cycles.

Storage: -20 °C

## Publications

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Product cited in: Mazur, Sadowska, Kowalewska, Abratowska, Kalaji, Mostowska, Garstka, Krasnodębska-Ostręga: "Overlapping toxic effect of long term thallium exposure on white mustard (*Sinapis alba* L.) photosynthetic activity." in: **BMC plant biology**, Vol. 16, Issue 1, pp. 191, (2016) ([PubMed](#)).

Charuvi, Nevo, Shimoni, Naveh, Zia, Adam, Farrant, Kirchhoff, Reich: "Photoprotection conferred by changes in photosynthetic protein levels and organization during dehydration of a homoiochlorophyllous resurrection plant." in: **Plant physiology**, Vol. 167, Issue 4, pp. 1554-65, (

2015) ([PubMed](#)).

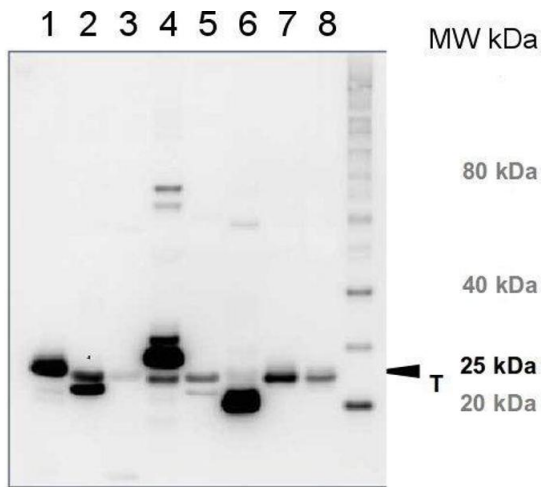
Sobrino-Plata, Carrasco-Gil, Abadía, Escobar, Álvarez-Fernández, Hernández: "The role of glutathione in mercury tolerance resembles its function under cadmium stress in Arabidopsis." in: **Metalomics : integrated biometal science**, Vol. 6, Issue 2, pp. 356-66, (2014) ([PubMed](#)).

Schmied, Hedtke, Grimm: "Overexpression of HEMA1 encoding glutamyl-tRNA reductase." in: **Journal of plant physiology**, (2011) ([PubMed](#)).

Yin, Lundin, Bertrand, Nurmi, Solymosi, Kangasjarvi, Aro, Schoefs, Spetea: "Role of Thylakoid ATP/ADP Carrier in Photoinhibition and Photoprotection of Photosystem II in Arabidopsis." in: **Plant physiology**, (2010) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1.