

Product: Anti-Lhcb2 (LHCII type II)

Product no: AS01 003

Product Information

Antibody clonality: Polyclonal

Raised in: Rabbit

Purity: Total IgG in PBS
pH 7.4

Quantity: 200 µl

Concentration: 3.6 µg/µl

Antibody form: Lyophilized. For reconstitution please add 200 µl of sterile water.

Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid or lyophilized material adhering to the cap or sides of the tubes.

Storage instructions: -20°C or -80°C long Term storage (years). Please, avoid freezing and thawing of antibodies. Make aliquots instead.

Application information:

Western Blot: 1:2 000 (ECL system)

Reactivity: *Arabidopsis thaliana*, barley, groundnut, pea, spinach, rice, maize, tobacco, tomato, *Chlamydomonas* sp. and ice plant *Mesembryanthemum crystallinum*.

MW of target protein: 28 kDa

References: Andersson et al. (2001). Antisense inhibition of the photosynthetic antenna proteins CP29 and CP26: implications for the mechanism of protective energy dissipation. *The Plant Cell* 13:1193-1204.

Asakura et al. *Plant Cell*. 2004 January; 16(1): 201-214.

Maize Mutants Lacking Chloroplast FtsY Exhibit Pleiotropic Defects in the Biogenesis of Thylakoid Membranes

Ryouichi Tanaka and Ayumi Tanaka, *Photosynthesis Research* (2005) 85: 327340. Effects of chlorophyllide a oxygenase in *Arabidopsis thaliana*.

Antibodies are intended for the research use only not for diagnostic or therapeutic use.

Product support: inquiry@agrisera.com, <http://www.agrisera.com/protocols/protocols.shtml>

Background

Isolated LHC-II (major light-harvesting chlorophyll a/b protein complex) of Photosystem II from thylakoid membranes is a mixture of several closely related gene products. The LHC-II genes are divided into three classes, referred to as Lhcb1, Lhcb2, and Lhcb3. Typically, all three are found in multiple copies in the genomes of higher plants

The Lhcb1–3 isoforms are similar enough to form homo- and heterotrimers in various combinations.

The main role of Lhcb1 and Lhcb2 is in the adaptation of photosynthesis to different light regimes. The most likely role of Lhcb3 is as an intermediary in light energy transfer from the main Lhcb1/Lhcb2 antenna to the Photosystem II core.

Immunogen: Synthetic peptide chosen from Lhcb2 protein of *Arabidopsis thaliana* conjugated to BSA.