COSMO BIO CO., LTD.
Inspiration for Life Science

Agrisera
Antibodies for plant sciences

Product: Anti-Lci5 (low carbon dioxide induced protein #5)

Product no: AS05 090

Product Information

Antibody clonality: Polyclonal

Raised in: Hen

Purity: Affinity purified IgY in PBS pH 7.4 containing sodium azide at 0.02%

Quantity: 100 µg

Concentration: 0.9 µg/µl

Antibody form: Liquid. 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: 4°C

Background

Lci5 protein is encoded by the nuclear gene *lci5*, which is induced during the acclimation to low CO_2 conditions in the green alga *Chlamydomonas reinhardtii*. The Lci5 protein is peripherally associated with the stroma side of thylakoid membranes. In addition, this protein is heavily phosphorylated (7 sites, 3 Threonine and 4 serine residues, as shown by mass spec anlaysis) in cells growing under low CO_2 concentrations in the medium or during state transitions (state 2). Microarray analysis showed that the gene is up-regulated 3 times during the acclimation to low CO_2 conditions.

Immunogen: synthetic peptide chosen from a sequence of *Chlamydomonas reinhardtii* Lci5 protein conjugated to KLH

Reference: Turkina M, Blanco-Rivero A, Vainonen J, Vener AV and Villarejo A (2006) CO_2 limitation induces specific redox-dependent protein phosphorylation in *Chlamydomonas reinhardtii.* Proteomics 6 (9), Pages 2693 - 2704

Application information:

Western Blot: 1: 12 000 – 1: 5 000 using regular ECL

MW: 24.5 kDa

Reactivity: *Chlamydomonas reinhardtii*

Cellular localization: Chloroplast, thylakoid fraction

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

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Distributor

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