

product **AS05 082**

Lhca5 | PSI type V chlorophyll a/b-binding protein

product information

background	Lhca5 is a low abundant chlorophyll a/b-binding protein that has been found to associate with Photosystem I in sub-stoichiometric amounts. Unlike the four main Lhca-types (Lhca1-4) Lhca5 seems to be able to associate with PSI or the LHCI at varying positions. The regulation pattern for the expression of the Lhca5 gene differs from the standard Lhc pattern as expression seems to be positively regulated under light and cold stress conditions.
immunogen	BSA-conjugated synthetic peptide derived from the Lhca4 protein of <i>Arabidopsis thaliana</i> (At1g45474). This sequence is highly conserved in Lhca5 proteins of angiosperms (monocots and dicots) and gymnosperms.
antibody format	rabbit polyclonal, total IgG in PBS pH 7.4, lyophilized
quantity	200 µl - for reconstitution add 200 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)
additional information	More information on the Lhca5 localization within the LHCI antenna can be found in Lucinski et al. (2006) Lhca5 interaction with plant photosystem I. FEBS Letters 580:6485-6488

application information

recommended dilution	1: 1000- 1: 3000 with standard ECL (WB)
expected apparent MW	23 23 for <i>Arabidopsis thaliana</i>
confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Hordeum vulgare</i> , <i>Spinacia oleracea</i>
predicted reactivity	monocots and dicots
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	to be added when available
selected references	Ganeteg et al. (2005) Lhca5 – an LHC-Type Protein Associated with Photosystem I. Plant Mol Biol 54: 1573-5028

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Antibodies for research

This product is **for research use only** (not for diagnostic or therapeutic use)

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