Datasheet for ABIN488535

anti-Lhcb1 antibody

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Overview

Quantity:	100 µg
Target:	Lhcb1 (lhcb1)
Reactivity:	Arabidopsis thaliana
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Lhcb1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	BSA-conjugated synthetic peptide derived from Arabidopsis thaliana At1g29910 (Lhcb1.1), At1g29920 (Lhcb1.2), At1g29930 (Lhcb1.3, most expressed), At1g34430 (Lhcb1.4), and At1g34420 (Lhcb1.5)
Isotype:	IgG
Characteristics:	Expected / apparent Molecular Weight of the Antigene: 25 / 25 kDa for Arabidopsis thaliana Antibody is labelled with biotin using N-hydroxysuccinimidobiotin. Antibody potency and purity has been evaluated by immunoelectrophoresis, single radialimmunodiffusion (Ouchterlony), ELISA,immunoblotting and enzyme inhibition.
Purification:	serum

Target Details

Target:	Lhcb1 (lhcb1)

Target Details

Alternative Name:	Lhcb1 (lhcb1 Products)
Background:	AGI Code: At1g29910, At1g29920, At1g29930, At1g34420, At1g34430 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.
Molecular Weight:	expected: 25 kDa, apparent: 25 kDa for Arabidopsis thaliana
UniProt:	P04777, Q8VZ87, P04778, Q9C5R6, Q39141

Application Details

Application Notes:	Recommended Dilution: 1 : 2500 - 1 : 5000 with standard ECL (WB).
Comment:	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
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For reconstitution add 100 µL of sterile water
Buffer:	PBS pH 7.4
Handling Advice:	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.
Storage:	-20 °C

Publications

Product cited in:	Yoshida, Watanabe, Hachiya, Tholen, Shibata, Terashima, Noguchi: "Distinct responses of the mitochondrial respiratory chain to long- and short-term high-light environments in Arabidopsis thaliana." in: **Plant, cell & environment**, (2011) (PubMed).