Datasheet for ABIN108469

anti-CRD1 antibody (AA 1-409)

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Overview

Quantity:	50 µL
Target:	CRD1 (CORD1)
Binding Specificity:	AA 1-409
Reactivity:	Bacteria (Congregibacter), Bacteria (Roseobacter), Chlamydomonas reinhardtii, Hordeum vulgare subsp. spontaneum (Wild barley) (Hordeum spontaneum), Nicotiana tabacum, Pisum sativum
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CRD1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	residues 1-409 from Arabidopsis thaliana CHL27 fused to TrxA Q9M591, At3g56940
Characteristics:	Expected / apparent Molecular Weight of the Antigene: 47 / 40 kDa (Arabidopsis thaliana)
Purification:	serum

Target Details

Target:	CRD1 (CORD1)
Alternative Name:	CRD1 (CORD1 Products)
Background:	AGI Code: At3g56940 Chl27 catalyzes the cyclase reaction in chlorophyll biosynthesis.

Target Details

Molecular Weight:	expected: 47 kDa, apparent: 40 kDa (Arabidopsis thaliana)
UniProt:	Q9M591

Application Details

Application Notes:	Recommended Dilution: 1 : 3000 with alkaline phosphatase (WB).
Comment:	Antibodies detect two isoforms in Chlamydomonas reinhardtii, CRD1 in cells grown under copper deficiency (39.8 kDa) and CTH1 in cells grown with sufficient copper (40.7 kDa). Antibodies will also react with Arabidopsis thaliana, Hordeum vulgare, Pisum sativum, and purple bacteria
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For reconstitution add 100 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 repreated freeze-thaw cycles.
Storage:	-20 °C

Publications

Product cited in:	Boldareva-Nuianzina, Bláhová, Sobotka, Koblízek: "Distribution and origin of oxygen-dependent and oxygen-independent forms of Mg-protoporphyrin monomethylester cyclase among phototrophic proteobacteria." in: **Applied and environmental microbiology**, Vol. 79, Issue 8, pp. 2596-604, (2013) (PubMed). Hollingshead, Kopecná, Jackson, Canniffe, Davison, Dickman, Sobotka, Hunter: "Conserved chloroplast open-reading frame ycf54 is required for activity of the magnesium protoporphyrin monomethylester oxidative cyclase in Synechocystis PCC 6803." in: **The Journal of biological chemistry**, Vol. 287, Issue 33, pp. 27823-33, (2012) (PubMed). Lang, Mueller, Hoernstein, Porankiewicz-Asplund, Vervliet-Scheebaum, Reski: "Simultaneous isolation of pure and intact chloroplasts and mitochondria from moss as the basis for sub-

cellular proteomics." in: **Plant cell reports**, Vol. 30, Issue 2, pp. 205-15, (2011) (PubMed).

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