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Product no **AS06 122**

CRD1 | Cyanobacterial homolog of plant CHL27 cyclase

Product information

Immunogen	residues 1-409 from <i>Arabidopsis thaliana</i> CHL27 fused to TrxA UniProt: Q9M591 , TAIR: At3g56940
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
Reconstitution	For reconstitution add 50 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.

Additional information [compartment marker] of chloroplast thylakoid and envelope membranes

Application information

Recommended dilution	1 : 3000 (WB)
Expected apparent MW	47 40 kDa (<i>Arabidopsis thaliana</i>)
Confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Hordeum vulgare</i> , <i>Nicotiana tabacum</i> , <i>Pisum sativum</i> , <i>Physcomitrella patens</i> , <i>Chlamydomonas reinhardtii</i> , purple bacteria (CRD1) and (CHL27), <i>Synechocystis</i> PCC 6803, anoxygenic phototrophs (proeobacteria): <i>Congregibacter litoralis</i> , <i>Roseobacter litoralis</i> , green non-sulfur bacterium: <i>Chloroflexus aurantiacus</i> , photosynthetic bacterium: <i>Rubrivivax gelatinosus</i>
Predicted reactivity	Cyanobacteria, <i>Gossypium hirsutum</i> , <i>Euphorbia esula</i> , <i>Hordeum vulgare</i> , <i>Nannochloropsis gaditana</i> , <i>Ricinus communis</i> Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known.
Additional information	Antibodies detect two isoforms in <i>Chlamydomonas reinhardtii</i> , 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 <i>Arabidopsis thaliana</i> , <i>Hordeum vulgare</i> , <i>Pisum sativum</i> , and purple bacteria For high resolution images, please visit the specific product page at www.agrisera.com
Selected references	Wang et al. (2020). Post-translational coordination of chlorophyll biosynthesis and breakdown by BCMS maintains chlorophyll homeostasis during leaf development. <i>Nat Commun.</i> 2020; 11: 1254. Cha et al. (2019). <i>Arabidopsis</i> GIGANTEA negatively regulates chloroplast biogenesis and resistance to herbicide butafenacil. <i>Plant Cell Rep.</i> 2019 Jul;38(7):793-801. doi: 10.1007/s00299-019-02409-x. Canniffe et al. (2014). Elucidation of the preferred routes of C8-vinyl reduction in chlorophyll and bacteriochlorophyll biosynthesis. <i>Biochem J.</i> 2014 Jun 19.