

Anti-CRD1 Antibody

Catalog # AP54157

Product Information

Application	WB
Primary Accession	Q9M591
Reactivity	Arabidopsis thaliana
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47631

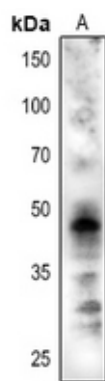
Additional Information

Gene ID	824861
Other Names	ACSF; AT103; CHL27; ZIP; Magnesium-protoporphyrin IX monoMethyl-ester [oxidative] cyclase chloroplastic; Mg-protoporphyrin IX monoMethyl-ester oxidative cyclase; Copper response defect 1 protein; Dicarboxylate diiron protein; AtZIP; MPE-cyclase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of arabidopsis thaliana CRD1. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/2000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CRD1 {ECO:0000303 PubMed:10811605}
Function	Catalytic component of the MgProto monomethylester (MgProtoME) cyclase complex that catalyzes the formation of the isocyclic ring in chlorophyll biosynthesis (PubMed: 14673103 , PubMed: 18682427 , PubMed: 29443418). Mediates the cyclase reaction, which results in the formation of divinylprotochlorophyllide (Pchlde) characteristic of all chlorophylls from magnesium-protoporphyrin IX 13- monomethyl ester (MgPMME) (PubMed: 14673103 , PubMed: 18682427 , PubMed: 29443418).
Cellular Location	Plastid, chloroplast inner membrane; Peripheral membrane protein. Plastid, chloroplast thylakoid membrane; Peripheral membrane protein

Images



Western blot analysis of CRD1 expression in *Arabidopsis thaliana* (A) whole cell lysates. (Predicted band size: 47 kD; Observed band size: 47 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.