

Anti-petC Antibody

Catalog # AP54169

Product Information

Application	WB
Primary Accession	Q9ZR03
Reactivity	Arabidopsis thaliana
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24366

Additional Information

Gene ID	827996
Other Names	PGR1; Cytochrome b6-f complex iron-sulfur subunit chloroplastic; Plastohydroquinone:plastocyanin oxidoreductase iron-sulfur protein; Proton gradient regulation protein 1; Rieske iron-sulfur protein; ISP; RISP
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of arabidopsis thaliana petC. 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	petC {ECO:0000303 PubMed:12040099}
Function	Essential protein for photoautotrophism. Confers resistance to photo-oxidative damages by contributing to the thermal dissipation of light energy and to lumenal acidification (increase of pH gradient). Component of the cytochrome b6-f complex, which mediates electron transfer between photosystem II (PSII) and photosystem I (PSI), cyclic electron flow around PSI, and state transitions (By similarity).
Cellular Location	Plastid, chloroplast thylakoid membrane; Single-pass membrane protein Mitochondrion inner membrane; Single-pass membrane protein. Note=The transmembrane helix obliquely spans the membrane in one monomer, and its extrinsic C-terminal domain is part of the other monomer.
Tissue Location	Confined to photosynthetic tissues, with highest levels in flowers. In leaves,

mostly localized in mesophyll cells. In stems, confined to the peripheral ring of chlorenchyma and adjoining groups of cells associated with the vascular bundles. In siliques, present in green wall of the fruit and in peduncle but not in the translucent white septum of the seeds.

Images



Western blot analysis of petC expression in *Arabidopsis thaliana* (A) whole cell lysates. (Predicted band size: 24; 22 kD; Observed band size: 22 kD)

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