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product AS06 116

PGL35 | plastoglobulin 35

product information

background	**Plastoglobules** are lipoprotein particles which can be found in chloroplasts. They are generally believed to have a function of lipid storage. Recent data suggest that plastoglobules can be also metabolically active, taking part in tocopherol synthesis and likely other pathways. Immunogen: Alternative name AtPap1, fibrillin-1, probable plastid-lipid-associated protein 1.
immunogen	recombinant *Arabidopsis thaliana* PGL35 protein O81439
antibody format	rabbit polyclonal seum lyophilized
quantity	200 µl, for reconstitution add 200 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.
tested applications	western blot (WB); immunocytochemistry (IC)
additional information	**cellular [compartment marker] of chloroplast plastoglobules** For IC samples were embedded in Lowicryl HM20 and sectioned into 100-nm-thick sections and placed on Formvar-coated gold slot grids. The sections were blocked for 20 min with a 5% (w/v) solution of nonfat milk in TBS plus 0.1%Tween 20 (TBST). Anti-PGL antibodies were diluted 1:20 in a solution of 2.5% nonfat milk in TBST at room temperature for 1 h. The sections were rinsed in a stream of TBS plus 0.5% Tween 20 and then transferred to the secondary antibody (anti-rabbit IgG 1:20 in TBST) conjugated to 10-nm gold particles for 1 h. images of localization can be found in Austin et al. (2006).

application information

recommended dilution	1: 1000 - 1: 3000 with standard ECL (WB), 1: 20 (IC)
expected | apparent MW	35 kDa
confirmed reactivity	*Arabidopsis thaliana*
predicted reactivity	*Brassica napus, Brassica campestris*
not reactive in	*Pisum sativum*
additional information	AtPGL35 is highly similar to *Pisum sativum* PG1
selected references	

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Vidi et al. (2006) Tocopherol Cyclase (VTE1) Localization and Vitamin E Accumulation in Chloroplast Plastoglobule Lipoprotein Particles. J. Biol. Chem. 281: 11225-11234. Austin et al. (2006) Plastoglobules Are Lipoprotein Subcompartments of the Chloroplast That Are Permanently Coupled to Thylakoid Membranes and Contain Biosynthetic Enzymes. Plant Cell 18:1693-1703.