Agrisera

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Product no AS06 116

PGL35 | Plastoglobulin 35; FIB1a; FBN1a

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, At4g04020
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	200 µl
Reconstitution	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	Immunocytochemistry (ICC), Western blot (WB)
Related products	collection of antibodies to proteins involved in photosynthesis Plant protein extraction buffer Secondary antibodies
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 : 20 (IC), 1 : 1000-1 : 3000 (WB)
Expected | apparent MW	35 kDa
Confirmed reactivity	*Arabidopsis thaliana, Citrus reticulata, Gossypium hirsutum* cv. Deltapine 90
Predicted reactivity	*Brassica napus, Brassica campestris, Capsicum annum* Species of your interest not listed? Contact us
Not reactive in	*Chlamydomonas reinhardtii, Pheodactylum tricornutum, Pisum sativum*
Additional information	AtPGL35 is highly similar to *Pisum sativum* PG1 For high resolution images, please visit the specific product page at www.agrisera.com
Selected references	

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Luo et al. (2015). Distinct carotenoid and flavonoid accumulation in a spontaneous mutant of Ponkan (Citrus reticulata Blanco) results in yellowish fruit and enhanced postharvest resistance. J Agric Food Chem. 2015 Sep 2.
Gámez-Arjona et al. (2014). Starch synthase 4 is located in the thylakoid membrane and interacts with plastoglobule-associated proteins in Arabidopsis. Plant J. 2014 Oct;80(2):305-16. doi: 10.1111/tpj.12633.

For high resolution images, please visit the specific product page at www.agrisera.com