Datasheet for ABIN2559390

anti-UGP2 antibody

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Overview

Quantity:	50 µL
Target:	UGP2
Reactivity:	Solanum sogarandinum, Tomato, Potato, Oryza sativa, Nicotiana tabacum, Barley, Arabidopsis thaliana
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	recombinant UGPase Q43772 overexpressed and purified from E.coli
Characteristics:	Expected / apparent Molecular Weight of the Antigene: 51.6 kDa
Purification:	serum

Target Details

Target:	UGP2
Alternative Name:	UGPase (UGP2 Products)
Background:	AGI Code: At3g03250 UDP-glucose pyrophosphorylase (UGPase, UDPGP) E.C=2.7.7.9. is a key enzyme of synthesis of sucrose, cellulose and other saccharides. There are two cytoplasmic isoforms of UGPase-A (which share 94 % identity on amino acid level) and one chloroplastic UGPase-B isoform in Arabidopsis thaliana which share ca. 10-11 % of identity (Kleczkowski et al. 2011).

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Target Details

Molecular Weight:	51.6 kDa
UniProt:	Q43772
Pathways:	Cellular Glucan Metabolic Process

Application Details

Application Notes:	Recommended Dilution: 1 : 1000 - 1 : 3000 with standard ECL (WB). Cellular [compartment marker] of cytoplasm
Comment:	this antibody detectes 1 ng of UGPase in a western blot and reacts with both cytosolic isoforms only which have similar MW of ca. 52 kDa in Arabidopsis thaliana
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For reconstitution add 200 µL of sterile water.
Handling Advice:	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. Once reconstituted make aliquots to avoid repreated freeze-thaw cycles.
Storage:	-20 °C

Publications

Product cited in:	McLoughlin, Arisz, Dekker, Kramer, de Koster, Haring, Munnik, Testerink: "Identification of novel candidate phosphatidic acid-binding proteins involved in the salt-stress response of Arabidopsis thaliana roots." in: **The Biochemical journal**, Vol. 450, Issue 3, pp. 573-81, (2013) (PubMed). Yasui, Mukougawa, Uemoto, Yokofuji, Suzuri, Nishitani, Kohchi: "The phytochrome-interacting vascular plant one-zinc finger1 and VOZ2 redundantly regulate flowering in Arabidopsis." in: **The Plant cell**, Vol. 24, Issue 8, pp. 3248-63, (2012) (PubMed). Foreman, Johansson, Hornitschek, Josse, Fankhauser, Halliday: "Light receptor action is critical for maintaining plant biomass at warm ambient temperatures." in: **The Plant journal : for cell and molecular biology**, Vol. 65, Issue 3, pp. 441-52, (2011) (PubMed).

Publications

Balsemão-Pires, Jaillais, Olson, Andrade, Umen, Chory, Sachetto-Martins: "The Arabidopsis translocator protein (AtTSPO) is regulated at multiple levels in response to salt stress and perturbations in tetrapyrrole metabolism." in: **BMC plant biology**, Vol. 11, pp. 108, (2011) (PubMed).

Sidaway-Lee, Josse, Brown, Gan, Halliday, Graham, Penfield: "SPATULA links daytime temperature and plant growth rate." in: **Current biology : CB**, Vol. 20, Issue 16, pp. 1493-7, (2010) (PubMed).

There are more publications referencing this product on: Product page

Images

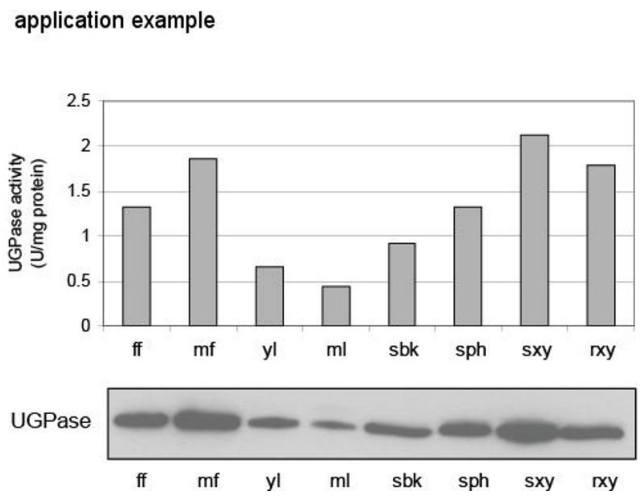

Image 1.