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Product no AS23 4975

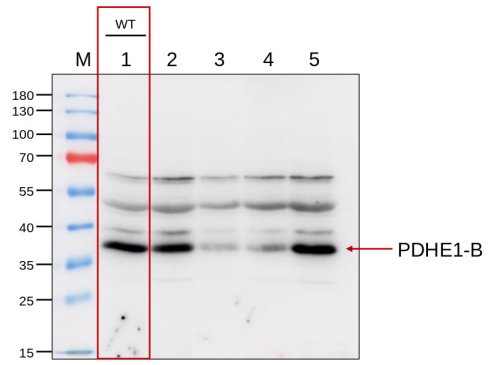
Anti-PDHE1-B | Pyruvate dehydrogenase E1 component subunit beta-1, mitochondrial

Product information

Immunogen	KLH-conjugated unique peptide derived from *Arabidopsis thaliana* PDHE1-B protein sequence, UniProt: Q38799 TAIR: AT5G50850
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution, add 50 µl, of sterile or deionized 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.

Application information

Recommended dilution	1 : 500 - 1: 2000 (WB)
Expected | apparent MW	39.2 | 37 kDa (signal peptide is removed)
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Arachis hypogaea, Brachypodium distachyon, Brassica napus, Cannabis sativa, Capsicum annuum, Citrus sp., Cucumis sativus, Glycine max, Gossypium sp., Hordeum vulgare, Malus domestica, Manihot esculenta, Medicago truncatula, Nicotiana tabacum, Oryza sativa, Pisum sativum, Populus sp., Solanum lycopersicum, Solanum tuberosum, Sorghum bicolor, Spinacia oleracea, Theobroma cacao , Triticum sp., Vitis vinifera, Zea mays* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	To be added when available. Antibody released in October 2024.



Samples:
1 - 40 µg of *Arabidopsis thaliana* Col-0 whole leaf extract.
2 - 40 µg of *Arabidopsis thaliana* mutant iar4 (AT1G24180), *Arabidopsis thaliana* pyruvate dehydrogenase E1a-like subunit.
3 - 40 µg of *Arabidopsis thaliana* mutant iar4l-1 (AT1G59900), Arabidopsis thaliana pyruvate dehydrogenase E1a subunit.
4 - 40 µg of *Arabidopsis thaliana* mutant iar4l-2 (AT1G59900), Arabidopsis thaliana pyruvate dehydrogenase E1a subunit.
5 - 40 ug of *Arabidopsis thaliana* mutant SALK_004367C (AT5G50850), *Arabidopsis thaliana* pyruvate dehydrogenase E1 component subunit beta-1. The T-DNA insertion was located in the 3'UTR region of AT5G50850, thus SALK_004367C might not be a knock-out mutant of mtPDH-E1b.

40 µg/well of total protein extracted freshly from *Arabidopsis thaliana* whole rosette leaves. Exact buffer components were: 50 mM Tris-HCl (pH 7.5), 150 mM NaCl, 0.5 mM EDTA, 10% (v/v) glycerol, 1% (v/v) Nonidet P-40 (NP-40), 1% (w/v) deoxycholate, 0.1% (w/v) SDS, 1 × Complete protease inhibitor cocktail (Roche), 1 mM PMSF, and denatured with 5xSDS sample buffer (300 mM Tris-HCL(pH 6.8), 10% SDS, 0.1% Bromophenol, 50% Glycerol, 500 mM DTT) at 95°C/5 min. Samples were separated in the RT on 10 % SDS-PAGE, and blotted for 7 min to nitrocellulose (pore size of 0.2 um), using: iBlotTM Dry Blotting System (Invitrogen) in the RT. Blot was blocked with 5% milk for: 3h/RT with

agitation. Blot was incubated in the primary antibody at a dilution of 1: 500 for ON/4°C with agitation in 2% milk. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed 5 times for 5 min in PBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1: 5000 in 2% milk for 1h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent: AS16 ECL-N-10 Agrisera Bright. Exposure time was 1 minute.

To increase signal/noise ratio, primary antibody can be used in a dilution of 1: 1000 or 1: 2000 1h/RT incubation.

Courtesy of Dr. Mengping Li, Department of Botany and Plant Biology, UNIGE, Switzerland