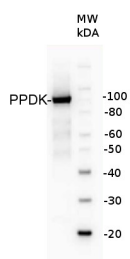


Product no **AS13 2647****PPDK | Pyruvate orthophosphate dikinase****Product information**

Immunogen	Purified recombinant enzyme consisting of residues 72-947 of <i>Zea mays</i> , UniProt: P11155 Peptide used to elicit this antibody is conserved in both isoforms of PPDK in rice: PPDK1 and PPDK2.
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	20 µg
Reconstitution	For reconstitution add 200 µl of sterile water in 40% glycerol to a final protein concentration of 100 ng/µl
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application information

Recommended dilution	1 : 25 000 (WB)
Expected apparent MW	102 95 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Cyanthobasis fruticulosa</i> , <i>Oryza sativa</i> , <i>Petrosimonia nigdeensis</i> , <i>Salsola grandis</i> , <i>Salsola tragus</i> , <i>Zea mays</i>
Predicted reactivity	<i>Hordeum vulgare</i> , <i>Kalanchoe fedtschenkoi</i> Species of your interest not listed? Contact us
Not reactive in	<i>Cucumis sativus</i>
Additional information	PPDK levels in C3 plants like <i>Arabidopsis thaliana</i> and <i>Hordeum vulgare</i> are very low and PPDK protein is very dilute in most tissues of C3 plants. To perform detection in C3 plants leaf proteins needs to be concentrated before western blot, Chastain et al. (2002) .
Selected references	Shen et al. (2016) . The existence of C4-bundle-sheath-like photosynthesis in the mid-vein of C3 rice. Rice (N Y). 2016 Dec;9(1):20. doi: 10.1186/s12284-016-0094-5. Epub 2016 May 10.

Application example

5 µg of total protein from samples such as *Zea mays* leaf, were extracted with Protein Extraction Buffer PEB ([AS08 300](#)). Samples were diluted with 1X sample buffer (NuPAGE LDS sample buffer (Invitrogen) supplemented with 50 mM DTT and heat at 70°C for 5 min and kept on ice before loading. Protein samples were separated on 4-12% Bolt Plus gels, LDS-PAGE and blotted for 70 minutes to PVDF using tank transfer. Blots were blocked immediately following transfer in 2% blocking reagent (GE RPN 2125; Healthcare) or 5% non-fat milk dissolved in 20 mM Tris, 137 mM sodium chloride pH 7.6 with 0.1% (v/v) Tween-20 (TBS-T) for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1 : 10 000 (in blocking reagent) for 1h at room temperature with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, and then washed 1x15 min and 3x5 min with TBS-T at room temperature with agitation. Blots were incubated in secondary antibody (goat anti-rabbit IgG horse radish peroxidase conjugated, recommended secondary antibody [AS09 602](#), Agrisera) diluted to 1:50 000 in blocking reagent for 1h at room temperature with agitation. The blots were washed as above. The blot was developed for 5 min with TMA-6 (Lumigen) detection reagent according the manufacturers instructions. Images of the blots were obtained using a CCD imager (VersaDoc

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MP 4000) and Quantity One software (Bio-Rad). Exposure time was 5 minutes.