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Product no AS07 241

Anti-PEPCK | PEP carboxykinase

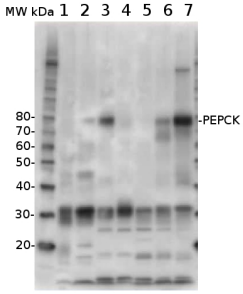
Product information

Immunogen	KLH-conjugated synthetic peptide well conserved in both PEPCK1 and 2 sequences from different plant species including *Zea mays* Q9SLZ0
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 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 : 1000 (WB)
Expected | apparent MW	73 | 78 kDa
Confirmed reactivity	*Ananas comosus, Miscantus giganteus, Mouse, Nannochloropsis oceanica, Oryza sativa, Panicum maximum,, Panicum virgatum, Phaseolus vulgaris, Saccharum* spp. hybrid clone C91-301,*Setaria viridis, Spartina alterniflora, Spartina patens, Zea mays*
Predicted reactivity	*Brassica napus, Chromera velia, Cucumis sativus, Flaveria* sp., *Lycopersicon esculentum*, *Medicago sativa, Oryza sativa, Urochloa panicoides, Zoysia japonica*, *Zea mays* Species of your interest not listed? Contact us
Not reactive in	*Arabidopsis thaliana, Pinus yunnanensis*
Additional information	Due to the MW of this protein we suggest to use a gradient gel for protein separation and a longer transfer time. Higher protein load 10-20 µg is adviced when working with this antibody. Antibody can be also used following 2D gel electrophoresis. This product can be sold containing ProClin if requested.
Selected references	Wei et al. (2019). Transcriptomic and proteomic responses to very low –CO 2 suggest multiple carbon concentrating mechanisms in Nannochloropsis oceanica. Biotechnol Biofuels 12: 168. 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. Arago n et al. (2013). The physiology of ex vitro pineapple (Ananas comosus L. Merr. var MD-2) as CAM or C3 is regulated by the environmental conditions: proteomic and transcriptomic profiles. Plant Cell Rep. Aug 20. (Ananas comosus, western blot detection following 2D gel electrophoresis)

Application example



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20 µg of total protein from (**1**) *Arabidopsis thaliana* total cell extracted with **P**rotein **E**xtration **B**uffer, PEB (**AS08 300**), (**2**) *Phaseolus vulgaris* total cell, extracted with PEB, (**3**) *Zea mays* total cell extracted with PEB, (**4**) *Miscanthus giganteus* total cell extracted with PEB, (**5**) *Panicum virgatum* total cell extracted with PEB, (**6**) *Spartina alterniflora* total cell extracted with PEB, (**7**) *Spartina patens* total cell extracted with PEB, were separated on **4-12%** NuPage (Invitrogen) **LDS-PAGE** and blotted 1h to **PVDF**. Blots were blocked immediately following transfer in 2% blocking reagent 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 for 1h at room temperature with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at room temperature with agitation. Blots were incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:50 000 in 2% blocking solution for 1h at room temperature with agitation. The blots were washed as above and developed for 5 min with chemiluminescence detection reagent according the manufacturers instructions. Images of the blots were obtained using a CCD imager (FluorSMax, Bio-Rad) and Quantity One software (Bio-Rad).