

Datasheet for ABIN249350

**anti-PCK1 antibody**[Go to Product page](#)**1** Image**1** Publication

## Overview

|              |                                                   |
|--------------|---------------------------------------------------|
| Quantity:    | 200 µL                                            |
| Target:      | PCK1                                              |
| Reactivity:  | Mouse, Zea mays, Green bean, Miscanthus giganteus |
| Host:        | Rabbit                                            |
| Clonality:   | Polyclonal                                        |
| Application: | Western Blotting (WB)                             |

## Product Details

|                             |                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:                  | KLH-conjugated synthetic peptide well conserved in both PEPCK1 and 2 sequences from different plant species including Zea mays Q9SLZ0 |
| Cross-Reactivity (Details): | No cross-reactivity with: Arabidopsis thaliana                                                                                        |
| Characteristics:            | Expected / apparent Molecular Weight of the Antigen: 73 / 78 kDa                                                                      |
| Purification:               | serum                                                                                                                                 |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | PCK1                                                                                                                                                                                                                                                                                                                                                                                |
| Alternative Name: | PEPCK ( <a href="#">PCK1 Products</a> )                                                                                                                                                                                                                                                                                                                                             |
| Background:       | <p>Phosphoenolpyruvate carboxykinase (PEPCK, PEP carboxykinase) Is an enzyme that catalyses the conversion of oxaloacetate and ATP to phosphoenolpyruvate, carbon dioxide and ADP.</p> <p>PEPCK is encoded by two genes in plants: pck1 and pck2. Both genes are nuclear, located on chromosome 4 and 5 respectively (in Arabidopsis). The protein products, PEPCK1 and PEPCK2,</p> |

## Target Details

|                   |                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------|
|                   | are both highly conserved in the model plant, <i>Arabidopsis thaliana</i> .                |
| Molecular Weight: | expected: 73 kDa, apparent: 78 kDa                                                         |
| UniProt:          | <a href="#">Q9SLZ0</a>                                                                     |
| Pathways:         | <a href="#">Positive Regulation of Peptide Hormone Secretion, Carbohydrate Homeostasis</a> |

## Application Details

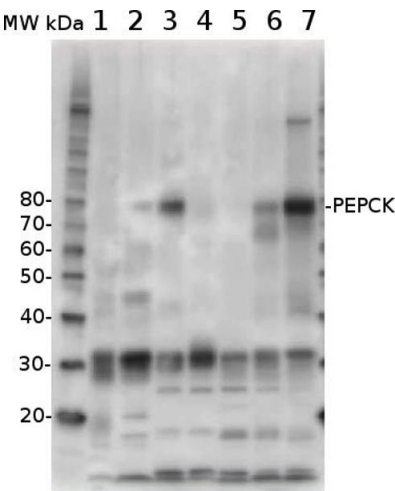
|                    |                                                                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | Recommended Dilution: 1 : 1000 with standard ECL (WB) MW 73   78 kDa.                                                                                                                      |
| Comment:           | 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 advised when working with this antibody. |
| 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.<br>Once reconstituted make aliquots to avoid repeated freeze-thaw cycles. |
| Storage:         | -20 °C                                                                                                                                                                                                                                           |

## Publications

|                   |                                                                                                                                                                                                                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product cited in: | Aragón, Pascual, González, Escalona, Carvalho, Amancio: "The physiology of ex vitro pineapple ( <i>Ananas comosus</i> L. Merr. var MD-2) as CAM or C3 is regulated by the environmental conditions: proteomic and transcriptomic profiles." in: <b>Plant cell reports</b> , (2013) ( <a href="#">PubMed</a> ). |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Western Blotting

**Image 1.** From left to right: *Arabidopsis thaliana* (1), *Phaseolus vulgaris* (2), *Zea mays* (3), *Miscantus giganteus* (4), *Panicum virgatum* (5), *Spartina alterniflora* (6), *Spartina patens* (7), (20 ug of total cellular protein was loaded per lane)