Datasheet for ABIN105565

anti-PCK1 antibody

1 Image

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Overview

Quantity:	100 µg
Target:	PCK1
Reactivity:	Zea mays
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Phospho Enol Pyruvate Carboxylase Antibody
Immunogen:	Immunogen: Anti-Phospho Enol Pyruvate Carboxylase Antibody was produced by repeated immunizations with maize leaves Phospho-enol-pyruvate Carboxylase. Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum as well as purified and partially purified Phospho-enol-Pyruvate Carboxylase [Maize].
Characteristics:	Synonyms: rabbit anti-Phospho Enol Pyruvate Carboxylase Antibody, rabbit anti-PEPC 1 antibody, PEPCase 1 antibody, Phosphoenolpyruvate carboxylase 1 antibody
Purification:	Anti-Phospho Enol Pyruvate Carboxylase is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above.

Target Details

Target:	PCK1
Alternative Name:	Phospho Enol Pyruvate Carboxylase (PCK1 Products)
Background:	Background: Anti-Phospho Enol Pyruvate Carboxylase antibody detects PEP. Phosphoenolpyruvate carboxylase is an enzyme in the family of carboxy-lyases that catalyzes the addition of bicarbonate to phosphoenolpyruvate (PEP) to form the four-carbon compound oxaloacetate. This reaction is used for carbon fixation in so-called "CAM" and "C4" plants where it plays a key role in photosynthesis. The enzyme is also found in some bacteria, but not in animals or fungi. Anti-Phospho Enol Pyruvate Carboxylase Antibody is ideal for investigators involved in Cell Signaling, biochemistry and Signal Transduction research.
Gene ID:	542372
UniProt:	B8XPZ2
Pathways:	Positive Regulation of Peptide Hormone Secretion, Carbohydrate Homeostasis

Application Details

Application Notes:	Immunohistochemistry Dilution: User Optimized Application Note: Anti-Phospho Enol Pyruvate Carboxylase antibody has been tested by western blotting and ELISA is suitable for IHC. Researchers should determine optimal titers for applications that are not stated below. Western Blot Dilution: 1:1,000 - 1:4,000 ELISA Dilution: 1:10,000 - 1:40,000
Restrictions:	For Research Use only

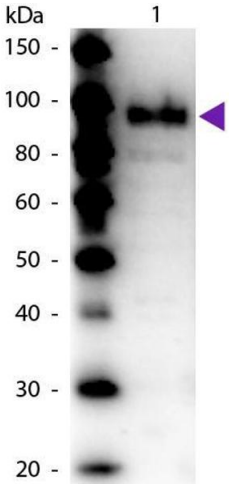
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western Blot of Rabbit Anti-Phospho Enol Pyruvate (PEP) Carboxylase antibody. Lane 1: Phospho Enol Pyruvate (PEP) Carboxylase. Lane 2: None. Load: 50 ng per lane. Primary antibody: Phospho Enol Pyruvate (PEP) Carboxylase primary antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Blocking: ABIN925618 for 30 min at RT. Predicted/Observed size: 100 kDa, 100 kDa for Phospho Enol Pyruvate (PEP) Carboxylase. Other band(s): None.