

Datasheet for 200-4663S**Phospho Enol Pyruvate Carboxylase Antibody Biotin Conjugated****Overview**

Description:	Anti-Phospho Enol Pyruvate Carboxylase(RABBIT) Antibody Biotin Conjugated - 200-4663S
Item No.:	200-4663S
Size:	25 µL
Applications:	WB
Reactivity:	Maize
Host Species:	Rabbit

Product Details

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.
Synonyms:	rabbit anti-Phospho Enol Pyruvate Carboxylase Antibody biotin Conjugation, biotin conjugated rabbit anti-PEPC 1 antibody, PEPCase 1 antibody, Phosphoenolpyruvate carboxylase 1 antibody
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	pepc
Reactivity:	Maize
Immunogen Type:	Native Protein
Immunogen:	Phospho-enol-pyruvate Carboxylase [Maize Leaves]

Purity/Specificity: Anti-Phospho Enol Pyruvate Carboxylase antibody 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. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Rabbit Serum as well as purified and partially purified Phospho-enol-Pyruvate-Carboxylase [Maize]. Cross reactivity against Phospho-enol-Pyruvate-Carboxylase from other sources may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - B8XPZ2](#)
- [NCBI - ACN80021.1](#)
- [GeneID - 542372](#)

Application Details

Tested Applications: WB

Application Note: Anti-Phospho Enol Pyruvate Carboxylase Biotin Conjugated antibody has been tested by western blot and is suitable to be assayed against 1.0 ug of Phospho-enol-Pyruvate-Carboxylase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:3,000 to 1:12,000 of the reconstitution concentration is suggested for this product.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:5,000 - 1:20,000

WB: 1:500 - 1:2,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

Expiration: Expiration date is one (1) year from date of receipt.

Disclaimer

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