

## Datasheet for 200-4363S

**Phospho Enol Pyruvate Carboxylase Antibody Peroxidase Conjugated****Overview**

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|----------------------|-------------------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-Phospho Enol Pyruvate Carboxylase(RABBIT) Antibody Peroxidase Conjugated - 200-4363S |
| <b>Item No.:</b>     | 200-4363S                                                                                 |
| <b>Size:</b>         | 25 µL                                                                                     |
| <b>Applications:</b> | WB                                                                                        |
| <b>Reactivity:</b>   | Maize                                                                                     |
| <b>Host Species:</b> | Rabbit                                                                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Background:</b>   | Phospho Enol Pyruvate Carboxylase is an enzyme in the family of carboxy-lyases that catalyzes the addition of bicarbonate to phosphoenolpyruvate (PEP) to form a four-carbon compound oxaloacetate. This reaction is used for carbon fixation in 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. |
| <b>Synonyms:</b>     | rabbit anti-Phospho Enol Pyruvate Carboxylase Antibody Peroxidase Conjugation, PE conjugated rabbit anti-PEPC 1 antibody, PEPCase 1 antibody, Phosphoenolpyruvate carboxylase 1 antibody                                                                                                                                                                                                |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Conjugate:</b>    | Peroxidase (HRP)                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                     |

**Target Details**

|                        |                                                  |
|------------------------|--------------------------------------------------|
| <b>Gene Name:</b>      | pepc                                             |
| <b>Reactivity:</b>     | Maize                                            |
| <b>Immunogen Type:</b> | Native Protein                                   |
| <b>Immunogen:</b>      | Phospho-enol-pyruvate Carboxylase [Maize Leaves] |

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

**Relevant Links:**

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

## Application Details

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| <b>Tested Applications:</b> | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Application Note:</b>    | Anti-Phosphoenolpyruvate Carboxylase Peroxidase conjugated antibody has been tested by western blot and is suitable to be assayed against 1.0 ug of Phospho-enol-Pyruvate Carboxylase [Maize] in a standard capture ELISA using 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 1:1,000 to 1:6,000 of the reconstitution concentration is suggested for this product. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ELISA:</b>               | 1:5,000 - 1:20,000                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>IHC:</b>                 | User Optimized                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>WB:</b>                  | 1:500 - 1:2,000                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Formulation

|                        |                                                                        |
|------------------------|------------------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                              |
| <b>Concentration:</b>  | 1.0 mg/mL by UV absorbance at 280 nm                                   |
| <b>Buffer:</b>         | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2             |
| <b>Preservative:</b>   | 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!               |
| <b>Stabilizer:</b>     | 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.

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

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## Disclaimer

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