

Product datasheet for **TA396956S**

pep1 Rabbit Polyclonal Antibody

Product data:

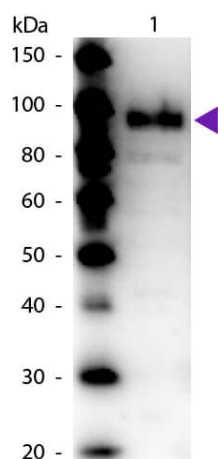
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|-----------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | ELISA, IHC, WB |
| Recommended Dilution: | WB: 1:1,000 - 1:4,000 IHC: User Optimized ELISA: 1:10,000 - 1:40,000 |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | Anti-Phospho Enol Pyruvate Carboxylase Antibody was produced by repeated immunizations with maize leaves Phospho-enol-pyruvate Carboxylase. |
| Specificity: | 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. 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]. Cross reactivity against Phospho-enol-Pyruvate Carboxylase from other tissues and species may occur but have not been specifically determined. |
| Formulation: | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Concentration: | 1.0 mg/ml - lot specific |
| Conjugation: | Unconjugated |
| Storage: | 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. |
| Stability: | Expiration date is one (1) year from date of receipt. |
| Database Link: | B8XPZ2 |



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- 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, rabbit anti-PEPC 1 antibody, PEPCase 1 antibody, Phosphoenolpyruvate carboxylase 1 antibody
- 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.

Product images:



Western Blot of Rabbit Anti-Phospho Enol Pyruvate (PEP) Carboxylase antibody. Lane 1: Phospho Enol Pyruvate (PEP) Carboxylase. 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 (p/n 611-103-122) at 1:40,000 for 30 min at RT. Blocking: (p/n MB-070) for 30 min at RT. Predicted/Observed size: 100 kDa, 100 kDa for Phospho Enol Pyruvate (PEP) Carboxylase.