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Datasheet for 200-4663

Phospho Enol Pyruvate Carboxylase Antibody Biotin Conjugated

Overview

Description:	Anti-Phospho Enol Pyruvate Carboxylase(RABBIT) Antibody Biotin Conjugated (BULK ORDER) - 200-4663
Item No.:	200-4663
Size:	10 mg
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 - 1:25,000
WB:	1:500 - 1:3,000

Formulation

Physical State:	Lyophilized
Concentration:	10.0 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
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

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Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.