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Datasheet for 100-4163

Phospho Enol Pyruvate Carboxylase Antibody

Overview

Description:	Anti-Phospho Enol Pyruvate Carboxylase(RABBIT) Antibody - 100-4163
Item No.:	100-4163
Size:	2 mL
Applications:	WB
Reactivity:	Maize
Host Species:	Rabbit

Product Details

Background:	Phosphoenolpyruvate Carboxylase, through the carboxylation of phosphoenolpyruvate (PEP), forms an oxaloacetate, a four-carbon dicarboxylic acid source for the tricarboxylic acid cycle. Phospho-enol-pyruvate Carboxylase enzyme is regulated by light-reversible phosphorylation. This protein is involved in the pathway C3 acid pathway, which is part of Photosynthesis.
Synonyms:	rabbit anti-Phospho Enol Pyruvate Carboxylase Antibody, PEPC 1 antibody, PEPCase 1 antibody, Phosphoenolpyruvate carboxylase 1 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

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

Purity/Specificity:	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Phospho-enol-pyruvate Carboxylase [Maize Leaves]. 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

Tested Applications:	WB
Application Note:	Anti-Phosphoenolpyruvate Carboxylase antibody has been tested in western blotting. Specific conditions for reactivity should be optimized by the end user. This antibody is suitable in ELISA and immunohistochemistry.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:30,000 - 1:160,000
IHC:	User Optimized
WB:	1:5,000 - 1:20,000

Formulation

Physical State:	Lyophilized
Concentration:	85 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

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.

References

- Kim SC et al. Phospholipase Dδ and phosphatidic acid mediate heat-induced nuclear localization of glyceraldehyde-3-phosphate dehydrogenase in Arabidopsis. *Plant J.* (2022)
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- Genenncher et al. Nucleoporin-Regulated MAP Kinase Signaling in Immunity to a Necrotrophic Fungal Pathogen. *Plant Physiology* (2016)
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- Tameling WIL et al. RanGAP2 mediates nucleocytoplasmic partitioning of the NB-LRR immune receptor Rx in the Solanaceae, thereby dictating Rx function. *Plant Cell.* (2010)

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