PEPC | phosphoenolpyruvate carboxylase, DyLight 594 conjugated (40 µg)

CD BioSciences
Plant Protein

Cat *PA00671*

Size *40 µg*

Host
Rabbit

Clonality
Polyclonal

Confirmed reactivity
Ananas comosus, Arabidopsis thaliana, Cenchrus ciliaris, Chloris gayana, Chromera velia, Cyanthobasis fruticulosa, Hordeum vulgare, Jatropha curcas, Kochia prostrata, Leptochloa fusca, Lupinus sp. , Megathyrsus maximus, Mesembryanthemum crystallinum, Nicotiana tabacum, Oryza sativa, Panicum antidotale, Panicum coloratum, Petrosimonia nigdeensis, Pinus strobus, Saccharum spp. hybrid clone C91-301, Salsola lanata, Salsola laricifolia,Salsola grandis, Salsola tragus Sorghum bicolor, Synechocystis PCC 6803, Phaeodactylum tricornutum (strain CCAP 1055/1), Pinus strobus, Thalassiosira weissfloggi, Zea mays, Zostera muelleri

Immunogen
KLH-conjugated synthetic peptide well conserved PEPC1 and sequences from different plant species including Arabidopsis thaliana Q9MAH0, At1g53310 (PEPC 1), Q84VW9, At3g14940 (PEPC 3). The peptide chosen to elicit this antibody is also perfectly conserved in bacterial type of this enzyme NP_177043.2 (PEPC 4). For Zea mays, the peptide is converved in PEP1 and PEP4 isoforms.

Host
Rabbit

Clonality
Polyclonal

Purity
Antigen affinity purified serum

Format
Liquid in PBS pH 7,4.

Storage
Store at 4°C for 12-18 months, A preservative may be added for long time storage up to 2 years. Spin the tube briefly before use.

Application
Immunofluorescence (IF), Western blot (WB)

Recommended dilution
To be determined by end user

Expected | apparent MW
110 | 105 kDa

Confirmed reactivity
Ananas comosus, Arabidopsis thaliana, Cenchrus ciliaris, Chloris gayana, Chromera velia, Cyanthobasis fruticulosa, Hordeum vulgare, Jatropha curcas, Kochia prostrata, Leptochloa fusca, Lupinus sp. , Megathyrsus maximus, Mesembryanthemum crystallinum, Nicotiana tabacum, Oryza sativa, Panicum antidotale, Panicum

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coloratum, Petrosimonia nigdeensis, Pinus strobus, Saccharum spp. hybrid clone C91-301, Salsola lanata, Salsola laricifolia,Salsola grandis, Salsola tragus Sorghum bicolor, Synechocystis PCC 6803, Phaeodactylum tricornutum (strain CCAP 1055/1), Pinus strobus, Thalassiosira weissfloggi, Zea mays, Zostera muelleri

Predicted reactivity

Brassica napus, Cucumis sativus (PEPC1, PEPC2, PEPC3), Flaveria bidentis, Flaveria trinervia, Glycine max, Lupinus albus, Mammillaria thornberi, Manihot esculenta, Manihot obovata, Medicago sativa, Morinda citrifolia, Nannochloropsis gaditana CCMP526, Nopalea gaumeri, Opuntia macbridei, Pachycereus pringlei, Saccharum spp, Solanum tuberosum, Spinacia oleracea, Streptanthus tortuosus, Pachycereus hollianus, Pisum sativa, Phaseolus vulgaris, Populus sp.,Triticum aestivum, algae, diatoms: Thalassiosira pseudonana, other species: Salmonella sp., Schiedea hookeri, Shigella sp. Schiedea sarmentosa, Streptanthus farnsworthianus, Tacinga saxatilis,Yersinia sp. Vibrio sp., Quercus sp.

Not reactive in

No confirmed exceptions from predicted reactivity are currently known,

Description

phosphoenolpyruvate carboxylase (PEPC), EC=4,1,1,31, belongs to the carboxylase family that catalyzes the addition of carbon dioxide to phosphoenolpyruvate (PEP) to oxaloacetic acid. Nicknames :PEPCase 1, PEPCase 3, pepc1, pepc3. DyLight 594 has an Amax = 593 nm and an Emax = 618 nm. DyLight is a registered trademark of Thermofisher Inc. and its subsidiaries.

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