MDH2 | Malate dehydrogenase 2 (mitochondrial)

CD BioSciences
Plant Protein

Cat *PA00361*

Size *50 µl*

Host
Rabbit

Clonality
Polyclonal

Confirmed reactivity
Solanum lycopersicum, Zea mays

Immunogen
Recombinant MDH2 of Zea mays, UniProt: B4FZU8

Host
Rabbit

Clonality
Polyclonal

Purity
Serum

Format
Lyophilized

Reconstitution
For reconstitution add 50 µl of sterile water

Storage
Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application
Immunoprecipitation (IP), Western blot (WB)

Recommended dilution
1 : 1000 (WB)

Expected | apparent MW
35 | 35 kDa

Confirmed reactivity
Solanum lycopersicum, Zea mays

Predicted reactivity
Arabidopsis thaliana, Brachypodium distachyon, Citrus sinensis, Coffea canephora, Cucumis sativus, Glycine max, Gossypium raimondii , Hordeum vulgare, Jatropha curcas, Leersia perrieri, Morus notabilis, Oryza sativa, Phaseolus vulgaris , Populus trichocarpa, Prunus persica, Ricinus communis, Setaria italica, Solanum tuberosum, Sorghum bicolor, Theobroma cacao, Triticum aestivum, Zostera marina, Vitis vinifera

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

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Additional information

Immunoprecipitation is performed by using Dynabeads Protein A: briefly 100 µl suspension is washed with 200 µl TTBS (Tris Buffered saline, 50 mM Tris-HCl pH 7,6 and 165 mM NaCl with 0,1% Tween 80) using the magnetic stands for concentrating the magnetic beads, After wash the beads are preincubated with 20 µl primary antibodies in 180 µl TTBS at room temperature for 30 minutes (minimum 15 minues), A first wash is followed afterwards with 200 µl TTBS and hence a real incubation with 200 µl plant extract (supernatant 20,000 x g for 3 min,), 200µl of TTBS and further 50 µl YeastBuster reagent (Novagen) containing a mixture of detergents to break and solubilize the mitochondria membrane, This incubation at room temperature is allowed to be under mild shaking to allow the beads to be in suspension, Hence supernatant is aspirated away by the use of the magnetic stand and two further washesing steps with 200 µl TTBS are performed prior mixing with 100 µl SDS-Sample buffer

Description

Malate dehydrogenase (EC=1.1.1.37) is a reversible enzyme that catalyzes the oxidation of malic acid to oxaloacetic acid. This reaction is part of many metabolic pathways, including the citric acid cycle. Malate dehydrogenase is also involved in gluconeogenesis, the synthesis of glucose from small molecules. The protein is highly expressed in young ears and immature seeds, while the expression level is low in roots and leaves. Alternative name :PP37.

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