

Agrisera

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product **AS19 4295**

MS | Malate synthase, (glyoxysomal)

product information

Background	Malate synthase is involved in the synthesis of (S)-malate from isocitrate, where it catalyses the reaction: $\text{acetyl-CoA} + \text{glyoxylate} + \text{H}_2\text{O} = (\text{S})\text{-malate} + \text{CoA} + \text{H}^+$. This is part of the glyoxylate cycle, which is itself part of carbohydrate metabolism.
Immunogen	<u>KLH</u> -conjugated peptide derived from <i>Cucurbita maxima</i> UniProt: P24571
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 μl
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 tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
Tested applications	Western blot (WB)
Related products	Collection of antibodies for carbohydrate metabolism

Application information

Recommended dilution	1 : 1000 (WB)
Expected apparent MW	65 kDa
Confirmed reactivity	<i>Nicotiana tabacum</i>
Predicted reactivity	<i>Arabidopsis thaliana</i> , <i>Cajanus cajan</i> , <i>Cinnamomum micranthum f. kanehirae</i> , <i>Cucumis sativus</i> , <i>Cucurbita maxima</i> , <i>Fagus sylvatica</i> , <i>Glycine max</i> , <i>Jatropha curcas</i> , <i>Morus notabilis</i> , <i>Mucuna pruriens</i> , <i>Parasponia andersonii</i> , <i>Theobroma cacao</i> , <i>Trema orientale</i>
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Experimental contitions: 5 μg of total protein extracted freshly from 3-4 weeks old plant leaves with a blender at 4°C in 300 mM Sorbitol, 50 mM HEPES, 5mM MgCl_2 . Separated on 10 % SDS-PAGE and blotted 1h to PVDF, semi-dry. Blot was blocked with 6 % milk for 1h 4°C with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 ON at 4°C with agitation. According to South et. al (2019) .
Selected references	South et. al (2019) . Synthetic glycolate metabolism pathways stimulate crop growth and productivity in the field. Science 2019 Jan 4;363(6422), DOI: 10.1126/science.aat9077