

Anti-Malate dehydrogenase 1, cytoplasmic antibody

Catalog: PHY2305S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Malate dehydrogenase (MDH) catalyzes a reversible
	NAD(+)-dependent-dehydrogenase reaction involved in central metabolism
	and redox homeostasis between organelle compartments.
Synonyms:	C-NAD-MDH1, CYTOSOLIC-NAD-DEPENDENT MALATE
	DEHYDROGENASE 1
Immunogen:	KLH-conjugated synthetic peptide (16 aa from Central section) derived from
	Arabidopsis thaliana C-NAD-MDH1 (AT1G04410).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum
	Peptide affinity form antibody available upon request at <u>info@phytoab.com</u> .
Reconstitution:	Reconstitution with 150 μl of sterile water.
	"Note: please spin tube briefly prior to opening it to avoid any losses that might
	occur from lyophilized material adhering to the cap or sides of the tube".
Stability &	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Storage:	12 months from date of receipt, -20 to -70 $^\circ\!\!\mathbb{C}$ as supplied.
	6 months, -20 to -70 $^\circ\!\mathrm{C}$ under sterile conditions after reconstitution.
	1 month, 2 to 8 $^\circ C$ under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4 $^\circ\!\!\mathbb{C}$. Upon receipt, store it immediately at the
	temperature recommended above.

Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000)
	Note: Optimal dilutions/concentrations should be determined by the
	end user.
Expected / apparent MW:	36 kDa
Confirmed Reactivity:	Arabidopsis thaliana
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used

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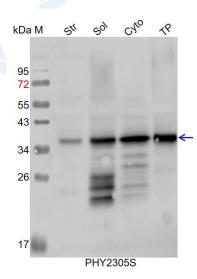


for immunization is 100% homologues with the sequence in *Brassica* napus, Brassica rapa, and 80-99% homologues with the sequence in Populus trichocarpa, Zea mays, Cucumis sativus, Triticum aestivum, Hordeum vulgare, Spinacia oleracea, Setaria viridis, Solanum tuberosum, Nicotiana tabacum, Solanum lycopersicum, Medicago truncatula, Panicum virgatum, Gossypium raimondii, Oryza sativa, Sorghum bicolor.

The sequence of the synthetic peptide used for immunization is 81% (13 / 16) homologues with the sequence in C-NAD-MDH2 (AT5G43330).

For more species homologues information, please contact tech support at <u>tech@phytoab.com</u>.

Application Example Example1:



Str: 12 μg stromal protein from *Arabidopsis thaliana*. Sol: 20 μg _{soluble} protein from *Arabidopsis thaliana*. Cyto: 15 μg cytosolic protein from *Arabidopsis thaliana*. TP: 20 μg total protein from *Arabidopsis thaliana*.

Electrophoresis: 15% SDS-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

Blocking: 5% skim milk at RT or 4° C for 1 h.

Primary antibody: 1:1000 dilution overnight at 4°C.

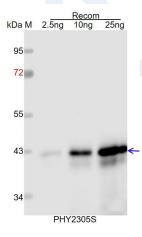
Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000)

Detection: using chemiluminescence substrate and image were captured with CCD camera.

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Example2:



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 43 kDa.

Electrophoresis: 12% SDS-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

Blocking: 5% skim milk at RT or 4℃ for 1 h.

Primary antibody: 1:1000 dilution overnight at 4°C.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were captured with CCD camera.



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