

Datasheet for 100-601-145**Malate Dehydrogenase Antibody****Overview**

Description:	Anti-Malate Dehydrogenase (Pig Heart) (SHEEP) Antibody - 100-601-145
Item No.:	100-601-145
Size:	2 mL
Applications:	Other, WB
Reactivity:	Pig
Host Species:	Sheep

Product Details

Background:	Catalytic activity of Malate Dehydrogenase is (S)-malate + NAD ⁺ = oxaloacetate + NADH.
Synonyms:	sheep anti-Malate Dehydrogenase Antibody, Malate dehydrogenase cytoplasmic, Cytosolic malate dehydrogenase
Host Species:	Sheep
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	MDH1
Reactivity:	Pig
Immunogen Type:	Native Protein
Immunogen:	Malate Dehydrogenase [Pig Heart]
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-sheep serum, purified and partially purified Malate Dehydrogenase [Pig Heart]. Cross reactivity against Malate Dehydrogenase from other tissues and species may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P11708

- [NCBI - P11708.4](#)
- [GeneID - 396894](#)

Application Details

Suggested Applications:	Other, WB (Based on references)
Application Note:	This product has been assayed against 1.0 ug of Malate Dehydrogenase [Pig Heart] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Sheep IgG [H&L] (Goat) code #611-1302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid])) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:3,000 to 1:12,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IP:	1:100
WB:	1:500 - 1:5,000

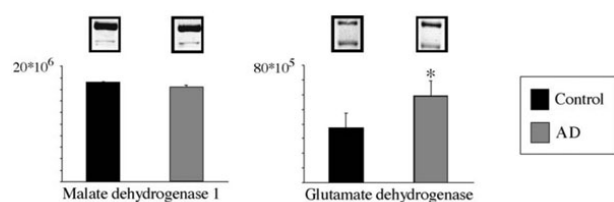
Formulation

Physical State:	Lyophilized
Concentration:	80 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.

Images



Western Blot

Western Blot using Anti-Malate Dehydrogenase (Pig Heart) (SHEEP) Antibody.

Two different molecular weight groups of isoforms were detected for MDH1 at about 36 kDa using Anti-MDH1 (pig heart) 100-601-145 at 1:1500, Fluorescent Cy-5 labelled secondary at 1:500 and for GDH at about 60 kDa using Anti-GDH (bovine liver) 100-4158 at 1:1500, anti-rabbit secondary at 1:500. Light intensities revealed unchanged amount of total soluble MDH1 but increased amount of total soluble GDH in AD when compared to controls. Values of light intensities are given as mean ± S.E.M. *p ≤ 0.05. Fig. 6. PMID: 16298240.

References

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