

Datasheet for 200-601-145S**Malate Dehydrogenase Antibody****Overview**

Description:	Anti-Malate Dehydrogenase (Pig Heart) (SHEEP) Antibody - 200-601-145S
Item No.:	200-601-145S
Size:	25 µL
Applications:	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:	IgG

Target Details

Gene Name:	MDH1
Reactivity:	Pig
Immunogen Type:	Native Protein
Immunogen:	Malate Dehydrogenase [Pig Heart]
Purity/Specificity:	Anti-MALATE DEHYDROGENASE is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Sheep Serum as well as 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
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Application Details

Tested Applications:	WB
Application Note:	MALATE DEHYDROGENASE antibody has been tested by western blot and is suitable to be 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 1:10,000 to 1:40,000 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

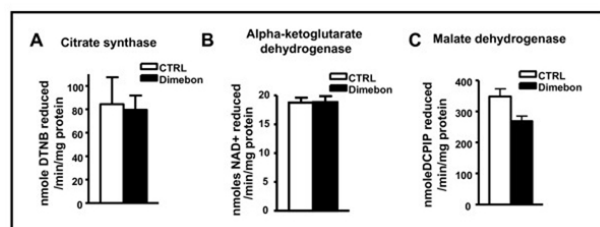
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

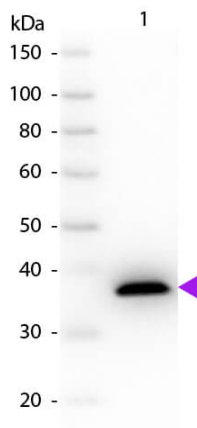
Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

The effect of dimebon on mitochondrial function in the brain of TgCRND8 mice. The enzyme activities of (A) citrate synthase (B) alpha ketoglutarate dehydrogenase and (C) malate dehydrogenase in brain of TgCRND8 mice chronically treated with dimebon compared to non-treated control TgCRND8 mice. Fig 4.
PMID: 21247479



Western Blot

Western Blot of Sheep anti-Malate Dehydrogenase antibody. Lane 1: Malate Dehydrogenase. Lane 2: None. Load: 50 ng per lane. Primary antibody: Malate Dehydrogenase antibody at 1:1,000 for overnight at 4°C. Secondary antibody: Peroxidase sheep secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 36 kDa, 36 kDa for Malate Dehydrogenase. Other band(s): None

References

- Wang J et al. Preclinical study of dimebon on β -amyloid-mediated neuropathology in Alzheimer's disease. *Molecular Neurodegeneration* (2011)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.