

Datasheet for 200-603-145S**Malate Dehydrogenase Antibody Peroxidase Conjugated****Overview**

Description:	Anti-Malate Dehydrogenase (Pig Heart) (SHEEP) Antibody Peroxidase Conjugated - 200-603-145S
Item No.:	200-603-145S
Size:	25 µL
Applications:	WB
Reactivity:	Pig
Host Species:	Sheep

Product Details

Background:	Malate Dehydrogenase is an enzyme that reversibly catalyzes the oxidation of malate to oxaloacetate using the reduction of NAD ⁺ to NADH. Malate Dehydrogenase is involved in gluconeogenesis, the synthesis of glucose from smaller molecules. There are two main isoforms in eukaryotic cells. One is found in the mitochondrial matrix the other is found in the cytoplasm.
Synonyms:	sheep anti-Malate Dehydrogenase HRP conjugated Antibody, peroxidase conjugated sheep anti-Malate Dehydrogenase Antibody, cytoplasmic, Cytosolic malate dehydrogenase
Host Species:	Sheep
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MDH1
Reactivity:	Pig
Immunogen Type:	Native Protein
Immunogen:	Malate Dehydrogenase [Pig Heart]

Purity/Specificity: 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-Peroxidase, anti-Sheep Serum as well as purified and partially purified Malate Dehydrogenase [Pig Heart]. Cross reactivity against Malate Dehydrogenase from other sources may occur but has not been specifically determined.

Relevant Links:

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

Application Details

Tested Applications: WB

Application Note: Anti-Malate Dehydrogenase Peroxidase Conjugated has been tested by western blot and is useful in ELISA and immunohistochemistry. Optimal titers should be obtained by researchers.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:500 - 1:1,000

IHC: 1:500 - 1:2,500

IP: 1:100

WB: 1:1,000 - 1:5,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 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) Gentamicin Sulfate. Do NOT add Sodium Azide!

Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

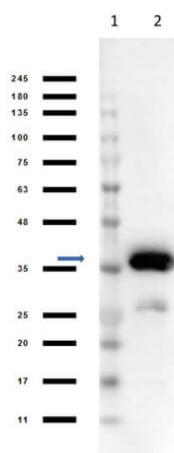
Shipping & Handling

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

Western Blot of Sheep Anti-Malate Dehydrogenase Antibody Peroxidase Conjugated. Lane 1: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 2: Malate Dehydrogenase [0.05µg]. Primary Antibody: Anti-Malate Dehydrogenase HRP at 1:1000 for 1 hr at RT. Secondary Antibody: none. Blocking Buffer: BlockOut (MB-073) for 30mins at RT. Predicted MW: 30-35kDa. Exposure: 1sec.

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.