

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

Description:	Anti-Malate Dehydrogenase (Pig Heart) (SHEEP) Antibody Peroxidase Conjugated (BULK ORDER) - 200-603-145
Item No.:	200-603-145
Size:	20 mg
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:	1:10,000 - 1:50,000
IHC:	1:500 - 1:2,500
IP:	1:100
WB:	1:1,000 - 1:5,000

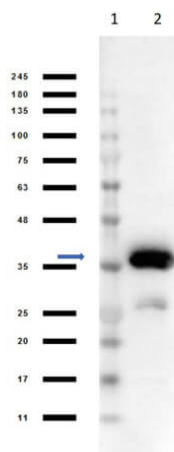
Formulation

Physical State:	Lyophilized
Concentration:	10.0 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) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
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 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.