

## Datasheet for 200-606-145

## Malate Dehydrogenase Antibody Biotin Conjugated

### Overview

<b>Description:</b>	Anti-Malate Dehydrogenase (Pig Heart) (SHEEP) Antibody Biotin Conjugated (BULK ORDER) - 200-606-145
<b>Item No.:</b>	200-606-145
<b>Size:</b>	10 mg
<b>Reactivity:</b>	Pig
<b>Host Species:</b>	Sheep

### Product Details

<b>Background:</b>	Anti-Malate dehydrogenase recognizes the protein malate dehydrogenase, an oxidoreductase that catalyzes the oxidation of malate to oxaloacetate with the concomitant reduction of NAD <sup>+</sup> to NADH. This reaction occurs in various metabolic pathways, the most notable being the citric acid cycle and gluconeogenesis. Two isoforms of malate dehydrogenase exist in eukaryotes localized in either the cytoplasm or the mitochondrial matrix.
<b>Synonyms:</b>	sheep anti-Malate Dehydrogenase biotin conjugated Antibody, biotin conjugated sheep anti-Malate Dehydrogenase Antibody, cytoplasmic, Cytosolic malate dehydrogenase
<b>Host Species:</b>	Sheep
<b>Conjugate:</b>	Biotin
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

### Target Details

<b>Gene Name:</b>	MDH1
<b>Reactivity:</b>	Pig
<b>Immunogen Type:</b>	Native Protein
<b>Immunogen:</b>	Malate Dehydrogenase [Pig Heart]

**Purity/Specificity:** Anti-Malate dehydrogenase antibody 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-Biotin, anti-Sheep Serum as well as purified and partially purified Malate Dehydrogenase [Pig Heart]. Cross reactivity against Malate Dehydrogenase from other sources is unknown.

**Relevant Links:**

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

## Application Details

**Application Note:** Anti-Malate dehydrogenase antibody has been assayed against 1.0 ug of Malate Dehydrogenase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:3,000 to 1:11,000 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:** 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) Sodium Azide

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

**Reconstitution Volume:** 1.0 mL

**Reconstitution Buffer:** Restore with deionized water (or equivalent)

## Shipping & Handling

**Shipping Condition:** Ambient

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<b>Storage Condition:</b>	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.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

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## Disclaimer

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