

Datasheet for 200-606-145S

Malate Dehydrogenase Antibody Biotin Conjugated**Overview**

Description:	Anti-Malate Dehydrogenase (Pig Heart) (SHEEP) Antibody Biotin - 200-606-145S
Item No.:	200-606-145S
Size:	25 µL
Reactivity:	Pig
Host Species:	Sheep

Product Details

Background:	Anti-Malate dehydrogenase recognizes the protein malate dehydrogenase, an oxidoreductase that catalyzes the oxidation of malate to oxaloacetate with the concomitant reduction of NAD ⁺ 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.
Synonyms:	sheep anti-Malate Dehydrogenase biotin conjugated Antibody, biotin conjugated sheep anti-Malate Dehydrogenase Antibody, cytoplasmic, Cytosolic malate dehydrogenase
Host Species:	Sheep
Conjugate:	Biotin
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 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-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:3,000 to 1:11,000 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: 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: 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.

Disclaimer

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