

AP21344AF-N**Polyclonal Antibody to MDH1 - Azide Free****Alternate names:**

MDHA, Malate dehydrogenase, cytoplasmic

Quantity:

10 mg

Concentration:

10.0 mg/ml

Background:

Malate dehydrogenase catalyzes the interconversion of L-malate and oxaloacetate using nicotinamide adenine dinucleotide (NAD) as a coenzyme. Malate dehydrogenase is found in all eukaryotic cells as two isozymes: mitochondrial (m-MDH) and cytoplasmic (soluble, s-MDH). Prokaryotes contain only a single form. The two isozymes, both consisting of two very similar subunits of about 35kD and having similar enzymatic activity appear as different proteins. There is structural similarity of mitochondrial malate dehydrogenase to L-3-hydroxyacyl CoA dehydrogenase and the cytoplasmic malate dehydrogenase to lactate dehydrogenase.

Uniprot ID:[P40925](#)**NCBI:**[NP_005908](#)**GeneID:**[4190](#)**Host / Isotype:**

Rabbit / IgG

Immunogen:

Malic dehydrogenase is isolated and purified from Human placenta.
Freund's complete adjuvant is used in the first step of the immunization procedure.

Format:

State: Lyophilized IgG fraction
Purification: Ammonium Sulphate Precipitation and Ion Exchange Chromatography
Buffer System: PBS, pH 7.2 without preservatives and foreign proteins
Reconstitution: Restore by adding 1.0 ml of sterile distilled water

Applications:

This product is intended for use in precipitating and non-precipitating antibody-binding assays (such as e.g., ELISA and Western blotting and Immunofluorescence or Histochemical techniques), to prepare an insoluble immuno-affinity adsorbent, for labelling with a marker of the customer's own choice.
Working dilutions in non-precipitating antibody-binding techniques: 1/100-1/3,000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

The reagents were evaluated for potency, purity and specificity using most or all of the following techniques: Immunoelectrophoresis, Cross-Immunoelectrophoresis, single Radial Immunodiffusion (Ouchterlony), block titration, ELISA, Immunoblotting and Enzyme Inhibition.
Cross-reactivities against enzymes of other sources may occur but have not been determined
Species: Human.
Other species not tested.

Storage:

Store the antibody lyophilized at 2-8°C and reconstituted at 2-8°C for one week or (in aliquots) at -20°C for longer.

If a slight precipitation occurs upon storage, this should be removed by centrifugation.

Shelf life: one year from despatch.