

AP21329PU-N**Polyclonal Antibody to L-Lactate Dehydrogenase - Aff - Purified****Alternate names:**

EC=1.1.1.27, L-lactate dehydrogenase B chain, LDH heart subunit, LDH-B, LDH-H, LDHB, Renal carcinoma antigen NY-REN-46

Quantity:

1 mg

Concentration:

2.0 mg/ml

Background:

Lactate dehydrogenase (LDH) is present in a wide variety of organisms, including plants and animals. It is an oxidoreductase which catalyses the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD⁺. As it can also catalyze the oxidation of hydroxybutyrate, it is occasionally called Hydroxybutyrate Dehydrogenase (HBD). There are 5 different isoenzymes of LDH, LDH1 to LDH5, each composed of 4 subunits which may be of 2 different types - M and H subunits. These subunits are encoded by two different genes: The M subunit is encoded by gene LDHA whilst the H subunit is encoded by LDHB. Usually LDH2 is the predominant form in the serum. An LDH1 level higher than the LDH2 level suggests myocardial infarction (damage to heart tissues releases heart LDH, which is rich in LDH1, into the bloodstream).

Uniprot ID:[Q5E9B1](#)**NCBI:**[NP_776525](#)**GeneID:**[281275](#)**Host / Isotype:**

Rabbit / IgG

Immunogen:

L-Lactic Dehydrogenase is isolated and purified from Bovine heart.
Freund's complete adjuvant is used in the first step of the immunization procedure.

Format:

State: Lyophilized hyperimmune purified IgG fraction
Purification: Solid Phase Affinity Chromatography
Buffer System: PBS, pH 7.2 stabilized with dextran without preservatives and foreign proteins
Reconstitution: Restore by adding 0.5 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 choice.

Working Dilutions:

Non-precipitating antibody-binding techniques: 1/1,000-1/20,000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

L-Lactic Dehydrogenase from Bovine heart.

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: Bovine.

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.