

**Anti-LACTATE DEHYDROGENASE (Rabbit Muscle) (GOAT) Antibody**  
**Lactate Dehydrogenase Antibody**  
**Catalog # ASR4075****Specification****Anti-LACTATE DEHYDROGENASE (Rabbit Muscle) (GOAT) Antibody - Product Information**

|                       |                                                                                                                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                  | Goat                                                                                                                                                                                                                                                                                                          |
| Conjugate             | Unconjugated                                                                                                                                                                                                                                                                                                  |
| Target Species        | Rabbit                                                                                                                                                                                                                                                                                                        |
| Reactivity            | Human, Rabbit                                                                                                                                                                                                                                                                                                 |
| Clonality             | Polyclonal                                                                                                                                                                                                                                                                                                    |
| Application           | WB, E, IP, I, LCI                                                                                                                                                                                                                                                                                             |
| Application Note      | <b>LACTATE DEHYDROGENASE antibody is suitable for use in ELISA, western blot, and immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 36 kDa in size corresponding to LDH western blotting in the appropriate cell lysate or extract.</b> |
| Physical State        | <b>Lyophilized</b>                                                                                                                                                                                                                                                                                            |
| Buffer                | <b>0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</b>                                                                                                                                                                                                                                             |
| Immunogen             | <b>This antibody was prepared from whole goat serum produced by repeated immunizations with a full length lactate dehydrogenase protein isolated from rabbit muscle.</b>                                                                                                                                      |
| Reconstitution Volume | <b>100 µL</b>                                                                                                                                                                                                                                                                                                 |
| Reconstitution Buffer | <b>Restore with deionized water (or equivalent)</b>                                                                                                                                                                                                                                                           |
| Preservative          | <b>0.01% (w/v) Sodium Azide</b>                                                                                                                                                                                                                                                                               |

**Anti-LACTATE DEHYDROGENASE (Rabbit Muscle) (GOAT) Antibody - Additional Information****Gene ID** 100009107**Other Names**  
100009107**Purity**

Anti-LACTATE 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-Goat Serum as well as purified and partially purified Lactate Dehydrogenase [Rabbit Muscle]. BLAST analysis was used to determine that cross reactivity is suggested for both muscle and heart isoforms (LDH-A and LDH-B) from most mammalian species.

### 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.

### Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

## Anti-LACTATE DEHYDROGENASE (Rabbit Muscle) (GOAT) Antibody - Protein Information

**Name** LDHA

### Function

Interconverts simultaneously and stereospecifically pyruvate and lactate with concomitant interconversion of NADH and NAD(+).

### Cellular Location

Cytoplasm.

## Anti-LACTATE DEHYDROGENASE (Rabbit Muscle) (GOAT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-LACTATE DEHYDROGENASE (Rabbit Muscle) (GOAT) Antibody - Images

## Anti-LACTATE DEHYDROGENASE (Rabbit Muscle) (GOAT) Antibody - Background

Lactate dehydrogenase is also known as L-lactate dehydrogenase A chain, LDH-A, LDH muscle subunit and LDH-M. Two isozymes of LDH occur in mammals, LDH-M and LDH-H which come together to form a homotetramer of 36 kDa subunits. Every LDH molecule consists of four subunits, where each subunit is either H or M (based on their electrophoretic properties.) There are, therefore, five LDH isotypes: LDH-1 (4H) - in the heart, LDH-2 (3H1M) - in the reticuloendothelial system, LDH-3 (2H2M) - in the lungs, LDH-4 (1H3M) - in the kidneys and LDH-5 (4M) - in the liver and striated muscle. Usually LDH-2 is the predominant form in the serum. An LDH-1 level higher than the LDH-2 level (a "flipped pattern") suggests myocardial infarction (damage to heart tissues releases heart LDH, which is rich in LDH-1, into the bloodstream). LDH complex works to prevent muscle failure and fatigue. LDH can be measured when released during tissue breakdown. LDH appears normally throughout the body, and LDH levels rise with many cancers, so it can be used as a tumor marker but not as a cancer identifier. Anti-Lactate Dehydrogenase Antibody is useful for researcher interested in cancer and metabolism research.