Product Datasheet

# LDHA Antibody

Catalog No: #32182

Package Size: #32182-1 50ul #32182-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

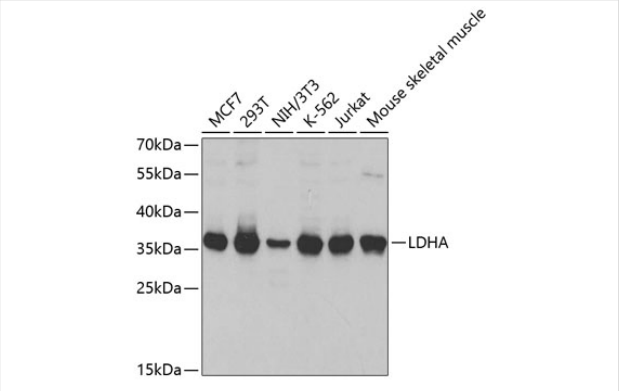
## Description

| | |
|---|---|
| Product Name | LDHA Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antibodies were purified by affinity purification using immunogen. |
| Applications | WB,IF |
| Species Reactivity | Human,Mouse,Rat |
| Specificity | The antibody detects endogenous level of total LDHA protein. |
| Immunogen Type | Recombinant Protein |
| Immunogen Description | Recombinant protein of human LDHA . |
| Target Name | LDHA |
| Other Names | LDHA; LDH-M; LDH1; PIG19; |
| Accession No. | Swiss-Prot:P00338NCBI Gene ID:3939 |
| SDS-PAGE MW | 37KD |
| Concentration | 1.0mg/ml |
| Formulation | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C |

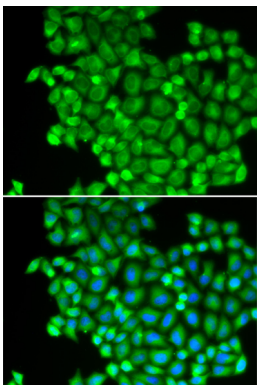
## Application Details

WB□1:500 - 1:2000IF□1:50 - 1:200IP□1:50 - 1:100

## Images




Western blot analysis of extracts of various cell lines, using LDHA antibody at 1:1000 dilution.



Immunofluorescence analysis of A549 cells using LDHA antibody. Blue: DAPI for nuclear staining.

## Background

Lactate dehydrogenase (LDH) catalyzes the interconversion of pyruvate and NADH to lactate and NAD+. When the oxygen supply is too low for mitochondrial ATP production, this reaction recycles NADH generated in glycolysis to NAD+, which reenters glycolysis. The major form of LDH found in muscle cells is the A (LDHA) isozyme. The LDHA promoter contains HIF-1α binding sites (1). LDHA expression is induced under hypoxic conditions (2). During intensive and prolonged muscle exercise, lactate accumulates in muscle cells when the supply of oxygen does not meet demand. When oxygen levels return to normal, LDH converts lactate to pyruvate to generate ATP in the mitochondrial electron transport chain.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.