

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 IHC IF
Species Reactivity	Hu Ms Rt
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
Uniprot	P00338
GeneID	3939;
SDS-PAGE MW	37KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

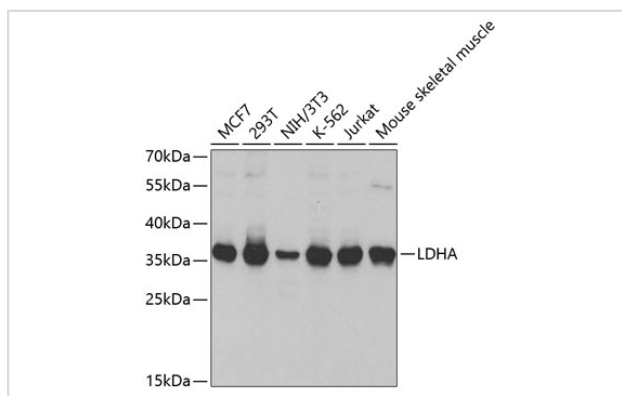
Application Details

Western blotting: 1:500 - 1:2000

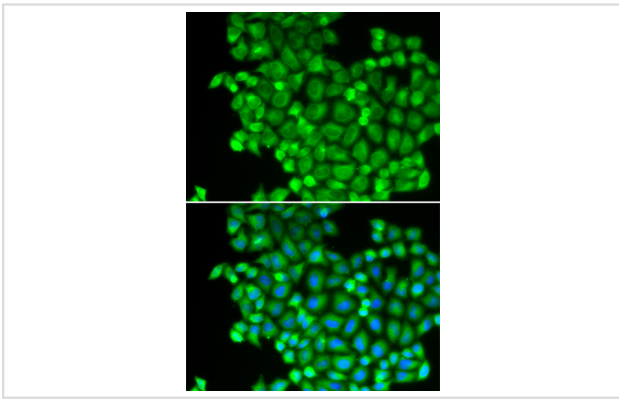
Immunohistochemistry: 1:50 - 1:100

Immunofluorescence: 1:10 - 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-1 α 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