

LDHA Antibody

Catalog No: #32182



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

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

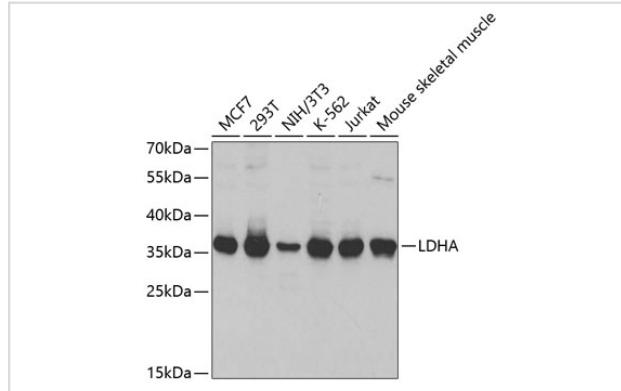
Description

Product Name	LDHA Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB;IHC;IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total LDHA protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human LDHA .
Conjugates	Unconjugated
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	PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH7.3.
Storage	Store at -20°C

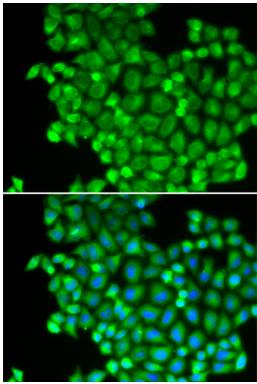
Application Details

WB:1:500 - 1:2000; IHC:1:50 - 1:200; IF:1:50 - 1:200

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 and is not intended for use in humans or animals.