

For Research Use Only

# LDHA Monoclonal antibody

Catalog Number: 66287-1-Ig

Featured Product

26 Publications



## Basic Information

<b>Catalog Number:</b> 66287-1-Ig	<b>GenBank Accession Number:</b> BC067223	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 3600 ug/ml by Nanodrop and 1500 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3939	<b>CloneNo.:</b> 2E2G6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P00338	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:100-1:400 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> lactate dehydrogenase A	
<b>Immunogen Catalog Number:</b> AG21417	<b>Calculated MW:</b> 332 aa, 37 kDa	
	<b>Observed MW:</b> 32-40 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, FC (Intra), ELISA

**Cited Applications:**  
WB, IHC, IF, IP

**Species Specificity:**  
human, mouse, rat, pig

**Cited Species:**  
human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** pig liver tissue, pig skeletal muscle tissue, A431 cells, rat skeletal muscle, mouse skeletal muscle

**IHC:** human liver cancer tissue,

**IF/ICC:** HepG2 cells,

## Background Information

LDHA, also named as LDH-M and NY-REN-59, is an enzyme which catalyzes the inter-conversion of pyruvate and L-lactate with concomitant inter-conversion of NADH and NAD<sup>+</sup>. LDHA is found in most somatic tissues, though predominantly in muscle tissue and tumours, and belongs to the lactate dehydrogenase family. It has long been known that many human cancers have higher LDHA levels compared to normal tissues. It has also been shown that LDHA plays an important role in the development, invasion and metastasis of malignancies. Mutations in LDHA have been linked to exertional myoglobinuria. LDHA has some isoforms with MW 26-40 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shengqi Wang	34568078	Front Oncol	WB,IF
Shihua Bao	36355621	Hum Reprod	IHC
Ruiguan Wang	35669414	Front Oncol	WB

## Storage

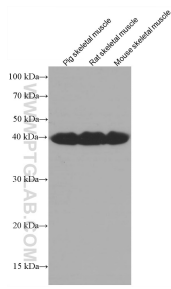
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

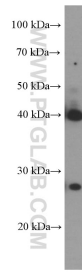
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

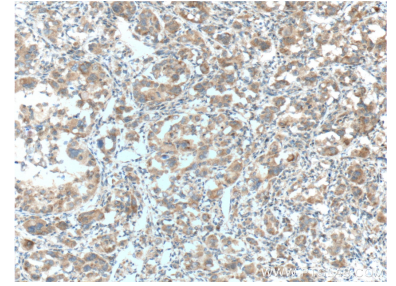
## Selected Validation Data



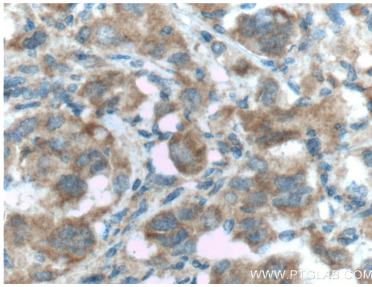
Various lysates were subjected to SDS PAGE followed by western blot with 66287-1-Ig (LDHA antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



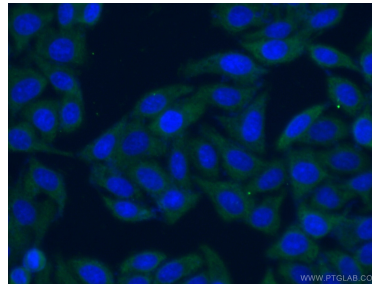
pig liver tissue were subjected to SDS PAGE followed by western blot with 66287-1-Ig (LDHA Antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



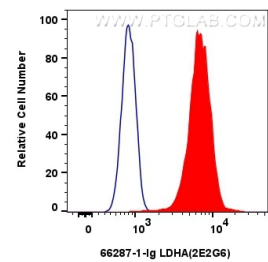
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66287-1-Ig (LDHA Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66287-1-Ig (LDHA Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol ) fixed HepG2 cells using 66287-1-Ig(LDHA antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.25 ug LDHA Monoclonal antibody (66287-1-Ig, Clone:2E2G6) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.25 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-Ig, Clone: MPC-11) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).