

For Research Use Only

# LDHA-Specific Polyclonal antibody

Catalog Number: 19987-1-AP

Featured Product

181 Publications



## Basic Information

### Catalog Number:

19987-1-AP

### Size:

150ul, Concentration: 650 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_005566

### GeneID (NCBI):

3939

### Full Name:

lactate dehydrogenase A

### Calculated MW:

37 kDa

### Observed MW:

32-37 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF 1:50-1:500

## Applications

### Tested Applications:

FC, IF, IHC, IP, WB, ELISA

### Cited Applications:

CoIP, FC, IF, IHC, IP, RIP, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, goat, chicken, rat, mouse

**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**: HEK-293 cells, Jurkat cells, mouse testis tissue, rat kidney tissue, A431 cells, HeLa cells, NIH/3T3 cells, MCF-7 cells

**IP**: mouse kidney tissue,

**IHC**: human heart tissue, human skeletal muscle tissue, human testis tissue

**IF**: HepG2 cells,

## Background Information

Lactate dehydrogenase (LDH) is composed of A subunits predominate in skeletal muscle and B subunits are abundantly produced in brain and heart. The LDHA (lactate dehydrogenase A) and COPB1 (coatomer protein complex, subunit beta 1) genes, are involved in energy metabolism and protein transport processes. Both genes might play important roles in muscle development. It has some isoforms with the molecular mass of 27-40 kDa and can form a homotetramer (PMID:11276087). This antibody is specific to LDHA and has no cross reaction to LDHB and LDHC.

## Notable Publications

Author	Pubmed ID	Journal	Application
Teresa W-M Fan	36150727	J Immunol	
Yuyu Chen	36127325	Cell Death Dis	WB
Di Huang	30224822	Nat Immunol	

## 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

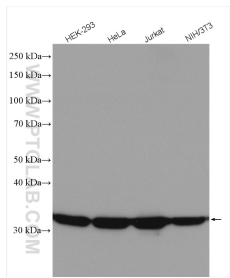
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

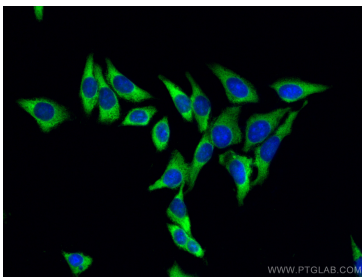
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

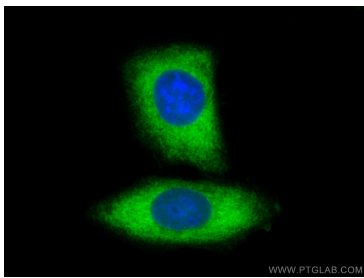
Selected Validation Data



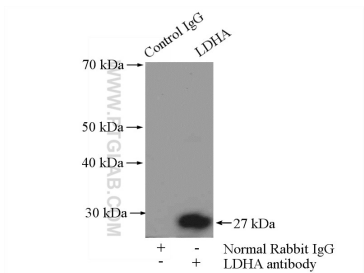
Various lysates were subjected to SDS PAGE followed by western blot with 19987-1-AP (LDHA-Specific antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



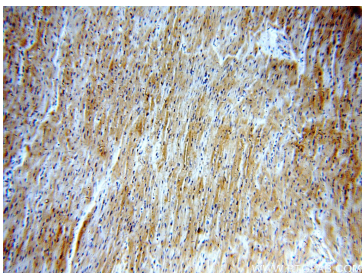
Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using LDHA-Specific antibody (19987-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



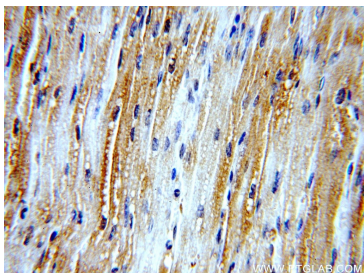
Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using LDHA-Specific antibody (19987-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



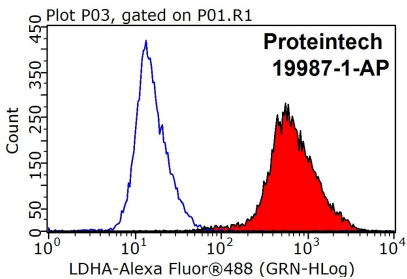
IP Result of anti-LDHA-Specific (IP:19987-1-AP, 4ug; Detection:19987-1-AP 1:2000) with mouse kidney tissue lysate 4000ug.



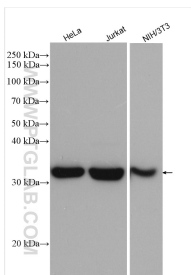
Immunohistochemical analysis of paraffin-embedded human heart using 19987-1-AP (LDHA-Specific antibody) at dilution of 1:100 (under 10x lens).



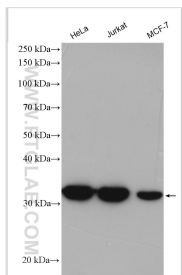
Immunohistochemical analysis of paraffin-embedded human heart using 19987-1-AP (LDHA-Specific antibody) at dilution of 1:100 (under 40x lens).



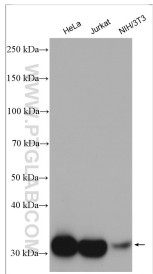
1X10<sup>6</sup> HepG2 cells were stained with 0.2ug LDHA-Specific antibody (19987-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



HeLa cells were subjected to SDS PAGE followed by western blot with 19987-1-AP (LDHA-Specific antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 19987-1-AP (LDHA-Specific antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 19987-1-AP (LDHA-Specific antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.