

For Research Use Only

# LDHB Polyclonal antibody

Catalog Number: 14824-1-AP

Featured Product

50 Publications



## Basic Information

**Catalog Number:**

14824-1-AP

**Size:**

150ul, Concentration: 500 µg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG6605

**GenBank Accession Number:**

BC002362

**GeneID (NCBI):**

3945

**UNIPROT ID:**

P07195

**Full Name:**

lactate dehydrogenase B

**Calculated MW:**

36 kDa

**Observed MW:**

35 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:5000-1:50000

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

IHC 1:400-1:1500

IF 1:50-1:500

## Applications

**Tested Applications:**

WB, IP, IF, FC, IHC, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, chicken, rat, mouse, pig, bovine

**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:** HeLa cells, DU 145 cells, mouse heart tissue, rat heart tissue

**IP:** mouse brain tissue,

**IHC:** human kidney tissue, human prostate cancer tissue

**IF:** HeLa cells,

## Background Information

LDHB, also named as LDH-H and NY-REN-46, belongs to the LDH/MDH superfamily. And LDH family. It is an enzyme which catalyzes the reversible conversion of pyruvate and NADH to lactate and NAD<sup>+</sup> in the glycolytic pathway. LDH comprises LDHA and LDHB, two subunits that are encoded by independent genes. In muscle or liver, most of the LDH is composed of four LDHA subunits, and preferably catalyzes the reduction of pyruvate to lactate. In heart and brain, LDH is mainly composed of four LDHB subunits, and predominantly catalyzes the oxidation of lactate to pyruvate. In other tissues, LDH is composed of both LDHA and LDHB. (PMID: 26269128, 31804482)

## Notable Publications

Author	Pubmed ID	Journal	Application
Haoran Li	28990097	Mol Med Rep	
Lifang Li	36230229	Animals (Basel)	WB
Weimou Chen	34603058	Front Pharmacol	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

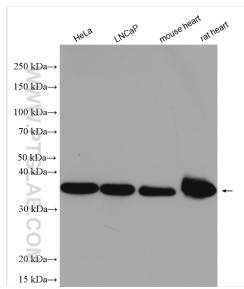
For technical support and original validation data for this product please contact:

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

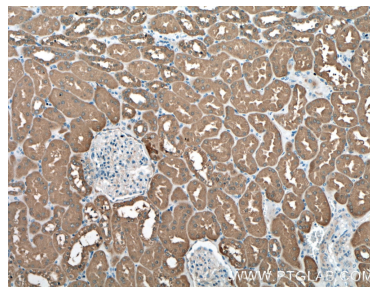
E: proteintech@ptglab.com  
W: ptglab.com

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

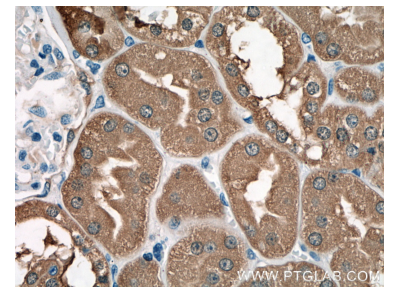
## Selected Validation Data



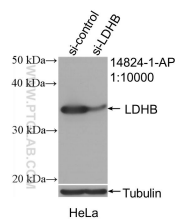
Various lysates were subjected to SDS PAGE followed by western blot with 14824-1-AP (LDHB antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



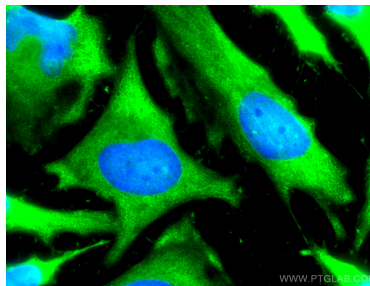
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14824-1-AP (LDHB antibody) at dilution of 1:400 (under 10x lens).



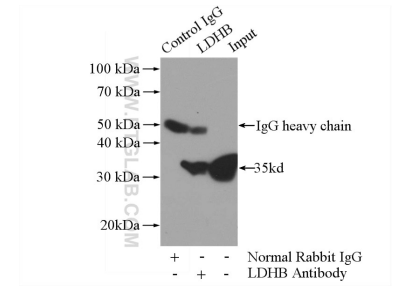
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14824-1-AP (LDHB antibody) at dilution of 1:400 (under 40x lens).



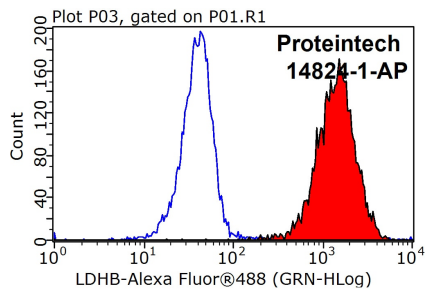
WB result of LDHB antibody (14824-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-LDHB transfected HeLa cells.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using LDHB antibody (14824-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-LDHB (IP:14824-1-AP, 3ug; Detection:14824-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



$1 \times 10^6$  HeLa cells were stained with 0.2ug LDHB antibody (14824-1-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.