

LDHA Monoclonal antibody

Catalog Number: 66287-1-Ig **19 Publications**

Basic Information

Catalog Number: 66287-1-Ig	GenBank Accession Number: BC067223	Purification Method: Protein A purification
Size: 3600 µg/ml	GeneID (NCBI): 3939	CloneNo.: 2E2G6
Source: Mouse	UNIPROT ID: P00338	Recommended Dilutions: WB 1:500-1:3000 IHC 1:100-1:400 IF 1:50-1:500
Isotype: IgG2b	Full Name: lactate dehydrogenase A	
Immunogen Catalog Number: AG21417	Calculated MW: 332 aa, 37 kDa	
	Observed MW: 32-37 kDa	

Applications

Tested Applications:
IF/ICC, IHC, WB, ELISA

Cited Applications:
WB, IP, IHC, IF

Species Specificity:
human, mouse, pig, rat

Cited Species:
human, rat, mouse, 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 : 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⁺. 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

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

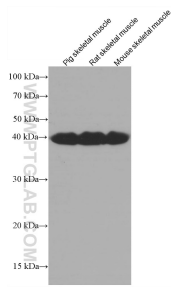
T: 4006900926

E: Proteintech-CN@ptglab.com

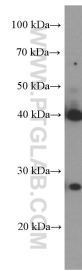
W: ptgcn.com

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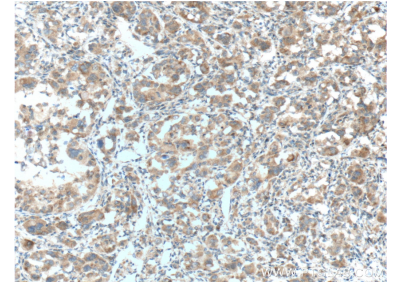
Selected Validation Data



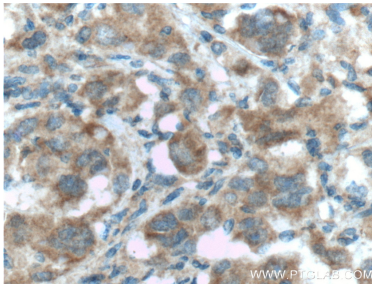
Various lysates were subjected to SDS PAGE followed by western blot with 66287-1-Ig (LDHA antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



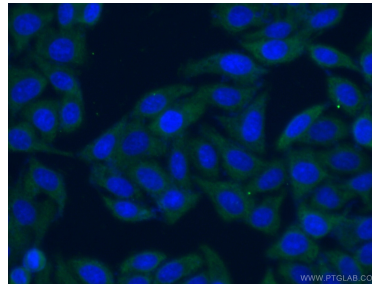
pig liver tissue were subjected to SDS PAGE followed by western blot with 66287-1-Ig (LDHA Antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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).