For Research Use Only

LDHA Monoclonal antibody

Catalog Number:66287-1-Ig Featured Product 30 Publications

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Basic Information

Catalog Number:
66287-1-Ig

Concentration:
2000 ug/ml

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG21417

GenBank Accession Number:
BC067223

GeneID (NCBI):
3939

UNIPROT ID:
P00338

Full Name:
lactate dehydrogenase A

Calculated MW:
332 aa, 37 kDa

Observed MW:
32-40 kDa

Purification Method:
Protein A purification

CloneNo.:
2E2G6

Recommended Dilutions:
WB: 1:500-1:3000
IHC: 1:100-1:400
IF/ICC: 1:50-1:500
FC (Intra): 0.25 ug per 10^6 cells in a 100 µl suspension

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,

FC (Intra) : 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

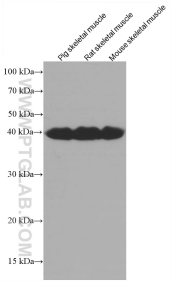
Author	Pubmed ID	Journal	Application
Shengqi Wang	34568078	Front Oncol	WB,IF
Shihua Bao	36355621	Hum Reprod	IHC
Ruiguan Wang	35669414	Front Oncol	WB

Storage

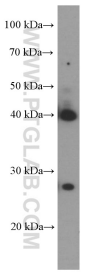
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

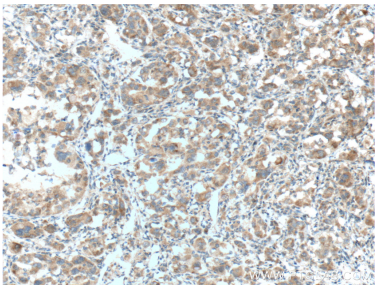
Selected Validation Data



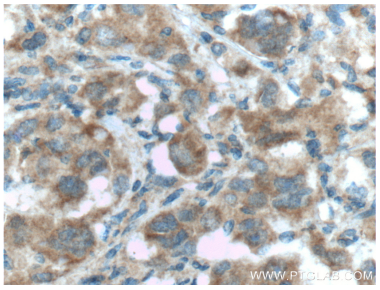
Various lysates were subjected to SDS PAGE followed by western blot with 66287-1-Ig (LDHA antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



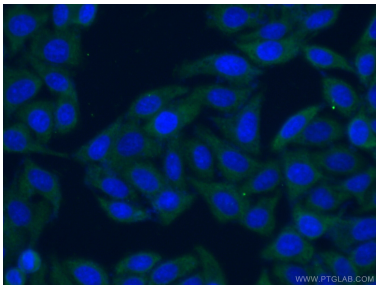
pig liver tissue were subjected to SDS PAGE followed by western blot with 66287-1-Ig (LDHA Antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



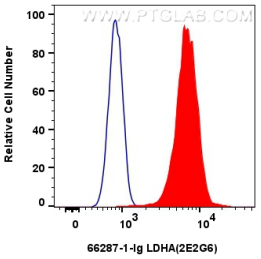
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66287-1-Ig (LDHA Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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℃ 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).



1x10^6 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).