

# LDHA Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5540

## Product Information

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<b>Application</b>	IHC-P, IF, WB
<b>Primary Accession</b>	<a href="#">P00338</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	36689
<b>Isotype</b>	Rabbit IgG
<b>Antigen Source</b>	HUMAN

## Additional Information

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<b>Gene ID</b>	3939
<b>Antigen Region</b>	204-232
<b>Other Names</b>	L-lactate dehydrogenase A chain, LDH-A, Cell proliferation-inducing gene 19 protein, LDH muscle subunit, LDH-M, Renal carcinoma antigen NY-REN-59, LDHA
<b>Dilution</b>	IHC-P~~1:100~500 IF~~1:10~50 WB~~1:1000
<b>Target/Specificity</b>	This LDHA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 204-232 amino acids from the C-terminal region of human LDHA.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	LDHA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	LDHA ( <a href="#">HGNC:6535</a> )
<b>Function</b>	Interconverts simultaneously and stereospecifically pyruvate and lactate with concomitant interconversion of NADH and NAD(+).
<b>Cellular Location</b>	Cytoplasm.
<b>Tissue Location</b>	Predominantly expressed in anaerobic tissues such as skeletal muscle and

liver.

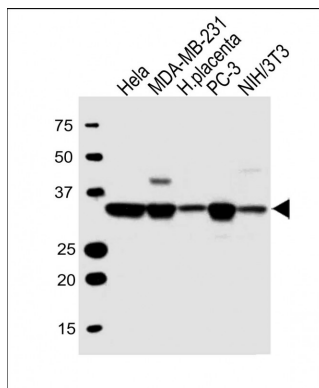
## Background

The protein encoded by this gene catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. The protein is found predominantly in muscle tissue and belongs to the lactate dehydrogenase family. Mutations in this gene have been linked to exertional myoglobinuria. Multiple transcript variants encoding different isoforms have been found for this gene. The human genome contains several non-transcribed pseudogenes of this gene.

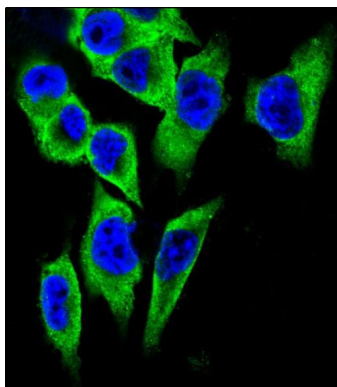
## References

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)  
Zhu, X., et al. Genet. Epidemiol. 34(2):171-187(2010)  
Zhuang, L., et al. Mod. Pathol. 23(1):45-53(2010)  
Zhao, Y.H., et al. Oncogene 28(42):3689-3701(2009)  
Koukourakis, M.I., et al. Oncology 77(5):285-292(2009)

## Images

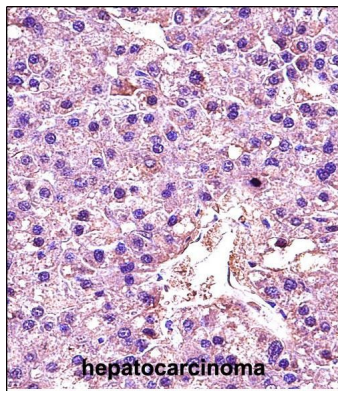


All lanes : Anti-LDHA Antibody (C-term) at 1:1000 dilution  
Lane 1: HeLa whole cell lysate Lane 2: MDA-MB-231 whole cell lysate Lane 3: human placenta lysate Lane 4: PC-3 whole cell lysate Lane 5: NIH/3T3 whole cell lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 36 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



Confocal immunofluorescent analysis of LDHA Antibody (C-term)(Cat#AW5540) with A375 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).

LDHA Antibody (C-term) (Cat. #AW5540)immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of LDHA Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.