10320 Camino Santa Fe, Suite G
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LDHA Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9523c

Specification

LDHA Antibody (Center) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	P00338
Other Accession	P04642, P00339, Q9BE24, P19858
Reactivity	**Human**
Predicted	**Bovine, Monkey, Pig, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**36689**
Antigen Region	**154-182**

LDHA Antibody (Center) - Additional Information

Gene ID 3939

Other Names
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

Target/Specificity
This LDHA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 154-182 amino acids from the Central region of human LDHA.

Dilution
FC~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
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.

Precautions
LDHA Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

LDHA Antibody (Center) - Protein Information

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Name LDHA (HGNC:6535)

Function Interconverts simultaneously and stereospecifically pyruvate and lactate with concomitant interconversion of NADH and NAD(+).

Cellular Location
Cytoplasm.

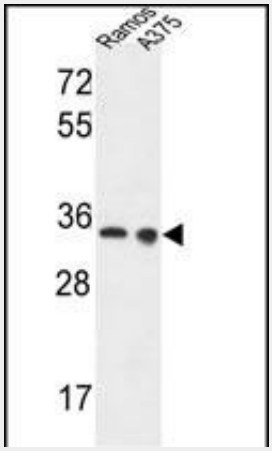
Tissue Location
Predominantly expressed in anaerobic tissues such as skeletal muscle and liver.

LDHA Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LDHA Antibody (Center) - Images



LDHA Antibody (Center) (Cat. #AP9523c) western blot analysis in Ramos,A375 cell line lysates (35ug/lane).This demonstrates the LDHA antibody detected the LDHA protein (arrow).

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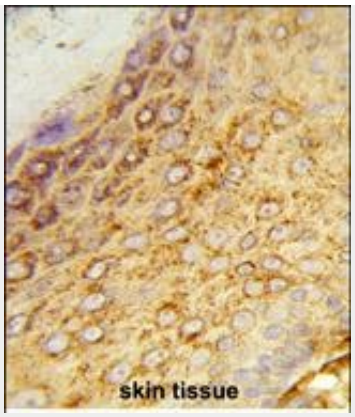
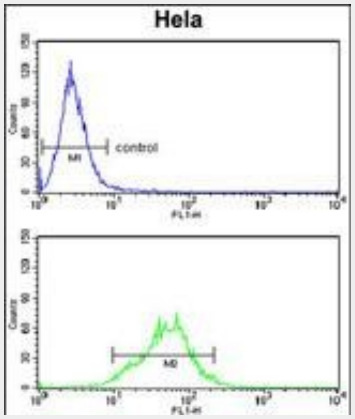


Formalin-fixed and paraffin-embedded human skin tissue reacted with LDHA Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



LDHA Antibody (Center) (Cat. #AP9523c) flow cytometry analysis of Hela cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

LDHA Antibody (Center) - Background

LDHA 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.

LDHA Antibody (Center) - References

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)
Xie, H., et al. Mol. Cancer Ther. 8(3):626-635(2009)
Koukourakis, M.I., et al. Oncology 77(5):285-292(2009)
Rikova, K., et al. Cell 131(6):1190-1203(2007)
Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)

LDHA Antibody (Center) - Citations

- The molecular mechanism and clinical significance of LDHA in HER2-mediated progression of gastric cancer.
- The cellular and compartmental profile of mouse retinal glycolysis, tricarboxylic acid cycle, oxidative phosphorylation, and ~P transferring kinases.

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