

# LDHA Rabbit pAb

LDHA Rabbit pAb Catalog # AP94839

#### **Product Information**

**Application** WB, IHC-P, IHC-F, IF

**Primary Accession** P00338

Reactivity Rat, Human, Mouse

Host Rabbit Clonality Polyclonal 36689 **Calculated MW Physical State** Liquid

**Immunogen** KLH conjugated synthetic peptide derived from human LDHA

Isotype IgG

**Purity** affinity purified by Protein A

**Buffer** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

**SUBCELLULAR LOCATION** Cytoplasm.

**SIMILARITY** Belongs to the LDH/MDH superfamily. LDH family.

**SUBUNIT** Homotetramer. Post-translational ISGylated.

modifications

**DISEASE** Glycogen storage disease 11 (GSD11) [MIM:612933]: A metabolic disorder that

> results in exertional myoglobinuria, pain, cramps and easy fatigue. Note=The disease is caused by mutations affecting the gene represented in this entry. This product as supplied is intended for research use only, not for use in

**Important Note** 

human, therapeutic or diagnostic applications.

#### **Additional Information**

Gene ID 3939

**Other Names** L-lactate dehydrogenase A chain, LDH-A, 1.1.1.27, Cell proliferation-inducing

gene 19 protein, LDH muscle subunit, LDH-M, Renal carcinoma antigen

NY-REN-59, LDHA (HGNC:6535)

Target/Specificity Metabolism of carbohydrates, Dehydrogenase

Kits, NADP/NADPH, Carbohydrate metabolism, Energy

Metabolism, Cancer, Energy Metabolism

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 **Dilution** 

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When Storage

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

### **Protein Information**

Name LDHA ( HGNC:6535)

**Function** Interconverts simultaneously and stereospecifically pyruvate and lactate

with concomitant interconversion of NADH and NAD(+).

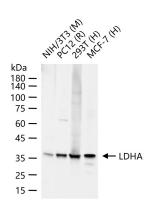
**Cellular Location** Cytoplasm.

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

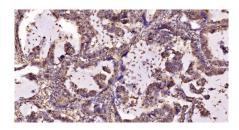
# **Background**

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. [provided by RefSeq].

## **Images**



25 ug total protein per lane of various lysates (see on figure) probed with LDHA polyclonal antibody, unconjugated (AP94839) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with LDHA Polyclonal Antibody, Unconjugated (AP94839) at 1:200 overnight at 4°C, followed by conjugation to the AP94839-HRP and DAB (C-0010) staining.

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