10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-LDHA Picoband Antibody

Catalog # ABO11693

Specification

Anti-LDHA Picoband Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P00338
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for L-lactate dehydrogenase A chain(LDHA) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-LDHA Picoband Antibody - 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

Calculated MW
36689 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Cytoplasm.

Protein Name
L-lactate dehydrogenase A chain

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E. coli-derived human LDHA recombinant protein (Position: A2-R106). Human LDHA shares 94.3% amino acid (aa) sequence identity with both mouse and rat LDHA.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-LDHA Picoband Antibody - 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 liver.

Anti-LDHA Picoband Antibody - 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

Anti-LDHA Picoband Antibody - Images

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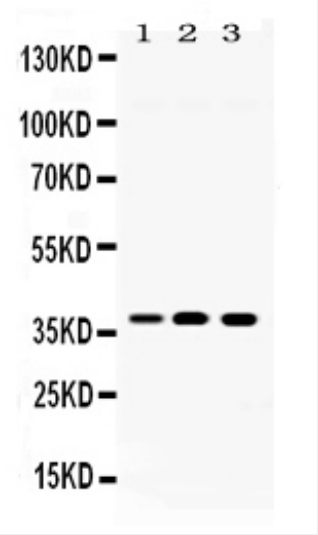
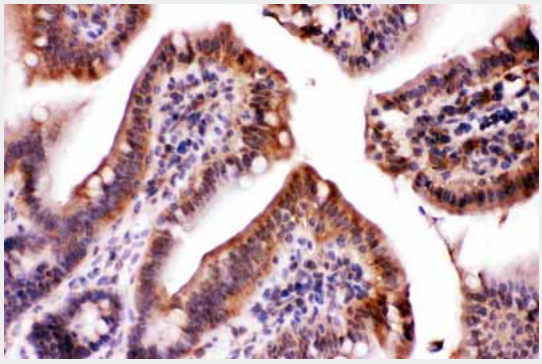
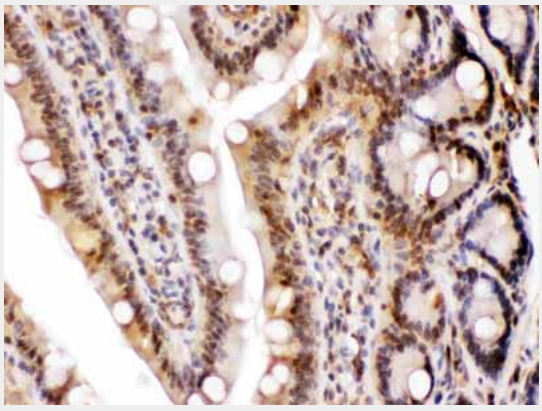


Western blot analysis of LDHA expression in rat spleen extract (lane 1), ANA-1 whole cell lysates (lane 2) and JURKAT whole cell lysates (lane 3). LDHA at 37KD was detected using rabbit anti-LDHA Antigen Affinity purified polyclonal antibody (Catalog # ABO11693) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .



LDHA was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti-LDHA Antigen Affinity purified polyclonal antibody (Catalog # ABO11693) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .



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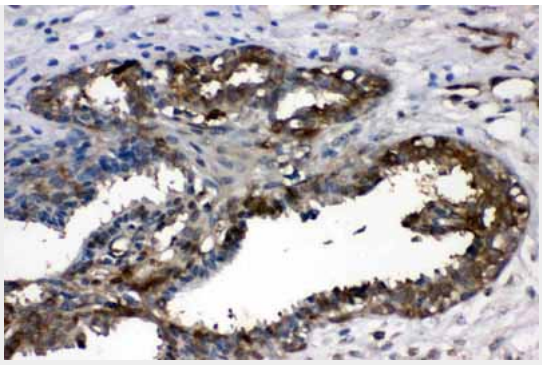

LDHA was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- LDHA Antigen Affinity purified polyclonal antibody (Catalog # ABO11693) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

Anti-LDHA Picoband Antibody - Background

Lactate dehydrogenase A, also known as LDHA, is an enzyme which in humans is encoded by the LDHA gene. 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.