

**Anti-LDHB Picoband Antibody**  
**Catalog # ABO11694****Specification****Anti-LDHB Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P07195</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for L-lactate dehydrogenase B chain(LDHB) 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-LDHB Picoband Antibody - Additional Information****Gene ID 3945****Other Names**

L-lactate dehydrogenase B chain, LDH-B, 1.1.1.27, LDH heart subunit, LDH-H, Renal carcinoma antigen NY-REN-46, LDHB

**Calculated MW**

36638 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br> <br>Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Cytoplasm.

**Protein Name**

L-lactate dehydrogenase B chain

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E. coli-derived human LDHB recombinant protein (Position: E237-L334). Human LDHB shares 98% amino acid (aa) sequence identity with both mouse and rat LDHB.

**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-LDHB Picoband Antibody - Protein Information****Name** LDHB**Function**

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

**Cellular Location**

Cytoplasm. Mitochondrion inner membrane; Peripheral membrane protein

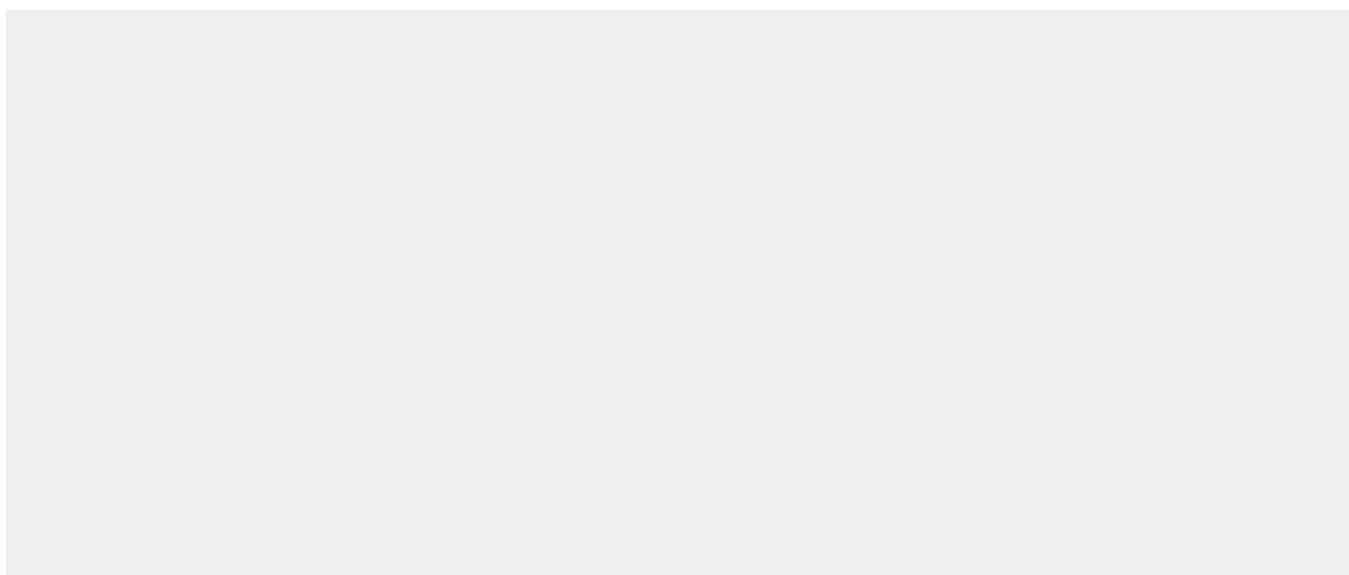
**Tissue Location**

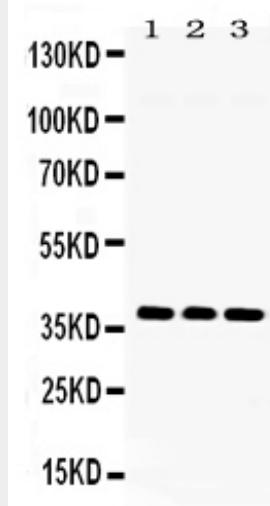
Predominantly expressed in aerobic tissues such as cardiac muscle.

**Anti-LDHB Picoband Antibody - Protocols**

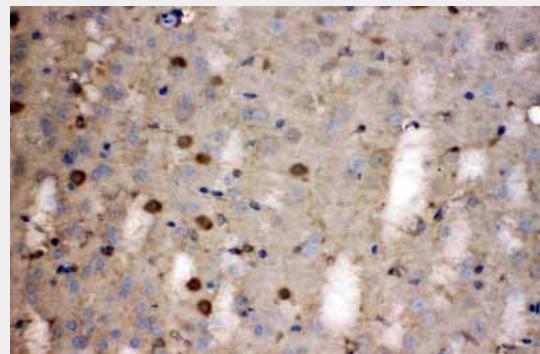
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

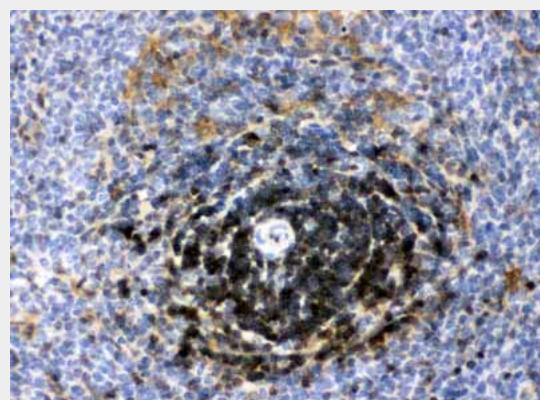
**Anti-LDHB Picoband Antibody - Images**



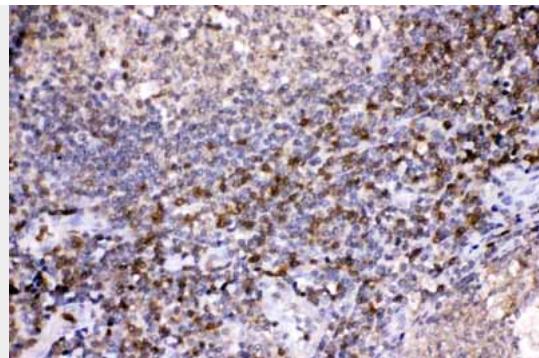
Western blot analysis of LDHB expression in rat brain extract (lane 1), NIH3T3 whole cell lysates (lane 2) and U2OS whole cell lysates (lane 3). LDHB at 37KD was detected using rabbit anti- LDHB Antigen Affinity purified polyclonal antibody (Catalog # ABO11694) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .



LDHB was detected in paraffin-embedded sections of mouse brain tissues using rabbit anti- LDHB Antigen Affinity purified polyclonal antibody (Catalog # ABO11694) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



LDHB was detected in paraffin-embedded sections of rat spleen tissues using rabbit anti- LDHB Antigen Affinity purified polyclonal antibody (Catalog # ABO11694) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



LDHB was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti- LDHB Antigen Affinity purified polyclonal antibody (Catalog # ABO11694) at 1  $\frac{1}{4}$ g/mL. The immunohistochemical section was developed using SABC method .

#### **Anti-LDHB Picoband Antibody - Background**

The LDHB gene encodes the B subunit of lactate dehydrogenase enzyme, which catalyzes the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD+ in a post-glycolysis process. Alternatively spliced transcript variants have been found for this gene. Recent studies have shown that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is localized in the peroxisomes. Mutations in this gene are associated with lactate dehydrogenase B deficiency. Pseudogenes have been identified on chromosomes X, 5 and 13.