

Anti-LDHB Picoband Antibody

Catalog # ABO11694

Product Information

Application	WB, IHC-P
Primary Accession	P07195
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm.
Source	Eukaryota
Protein Name	L-lactate dehydrogenase B chain
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.

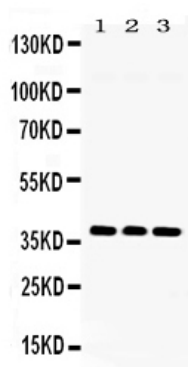
Protein Information

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.

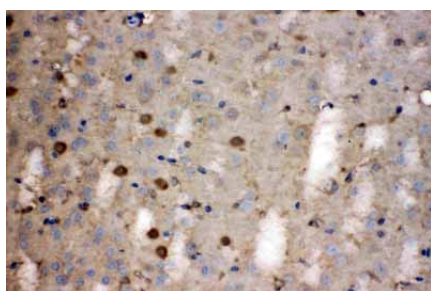
Background

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.

Images

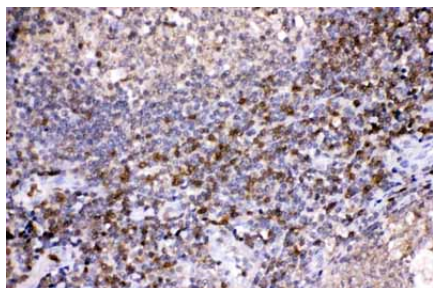
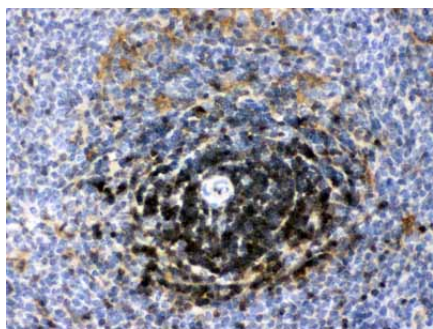


Western blot analysis of LDHB expression in rat brain extract (lane 1), NIH3T3 whole cell lysates (lane 2) and U2OS whole cell lysates (lane 3). LDHB at 37KD was detected using rabbit anti- LDHB Antigen Affinity purified polyclonal antibody (Catalog # ABO11694) at 0.5 μ g/mL. The blot was developed using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

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