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Anti-LDHA Picoband Antibody

Catalog # ABO11693

Product Information

Application	WB, IHC-P
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm.
Source	Eukaryota
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.

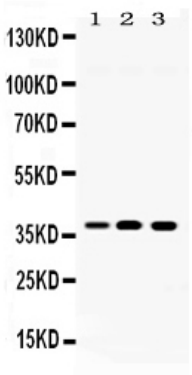
Protein Information

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.

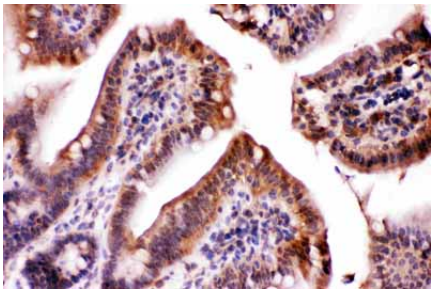
Background

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.

Images

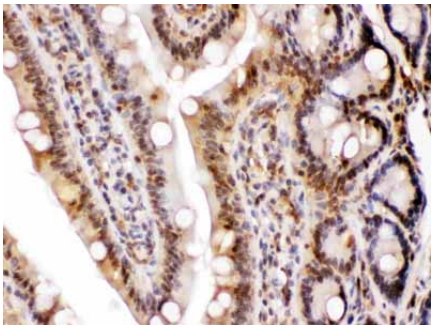


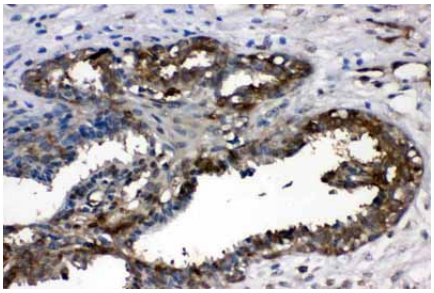
Western blot analysis of LDHA expression in rat spleen extract (lane 1), ANA-1 whole cell lysates (lane 2) and JURKAT whole cell lysates (lane 3). LDHA at 37KD was detected using rabbit anti- LDHA Antigen Affinity purified polyclonal antibody (Catalog # ABO11693) at 0.5 □¼g/mL. The blot was developed 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 □¼g/mL. The immunohistochemical section was developed using SABC method .

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





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 □¼g/mL. The immunohistochemical section was developed using SABC method .