

Product Datasheet

Lactate Dehydrogenase Antibody

Catalog No: CY5348

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IHC ICC/IF IP FC



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Information

UniProt ID: P00338

All Names: LDHA; LDH-M; LDH1; PIG19; GSD11; TRG5; Proliferation inducing gene 19;

Form: Liquid

Storage instructions: Store at +4° C short term. Store at -20° C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Specificity: This antibody is specific for p85 cleaved form of PARP.

Molecular Wt.: 37 kDa

Application

WB: 1:500~1:2000

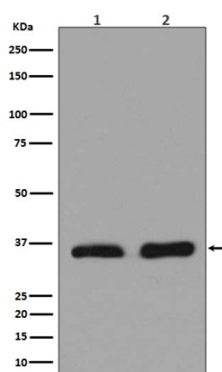
IHC: 1:50~1:100

ICC/IF: 1:50~1:100

IP:1:50

Background

Lactate dehydrogenase (LDH) catalyzes the interconversion of pyruvate and NADH to lactate and NAD⁺. When the oxygen supply is too low for mitochondrial ATP production, this reaction recycles NADH generated in glycolysis to NAD⁺, which reenters glycolysis. The major form of LDH found in muscle cells is the A (LDHA) isozyme. The LDHA promoter contains HIF-1 α binding sites (1). LDHA expression is induced under hypoxic conditions (2). During intensive and prolonged muscle exercise, lactate accumulates in muscle cells when the supply of oxygen does not meet demand. When oxygen levels return to normal, LDH converts lactate to pyruvate to generate ATP in the mitochondrial electron transport chain.



Western blot analysis of LDHA expression in (1)HeLa cell lysate;(2)Human heart lysate.

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