

# Anti-Lactate Dehydrogenase Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

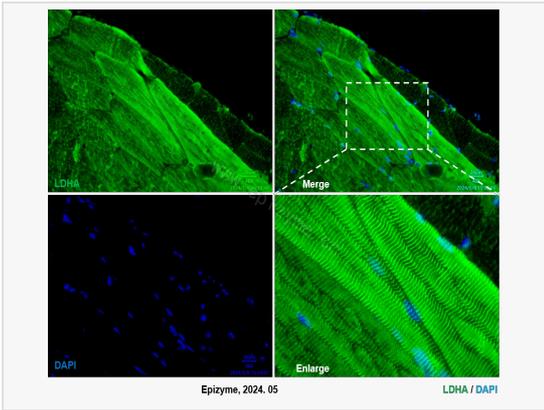
Catalog # R013758

## Product Information

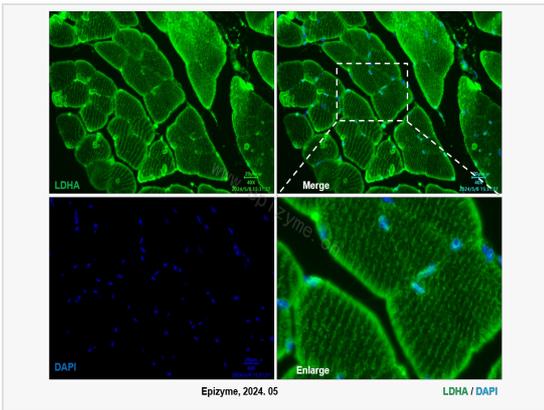
Application	IF (Cell)/ICC, ELISA, WB, IHC-P/IF (Tissue-P)
Reactivity	Rat, Human, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	84A20C39
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Lactate Dehydrogenase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Lactate Dehydrogenase Rabbit mAb [84A20C39] is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

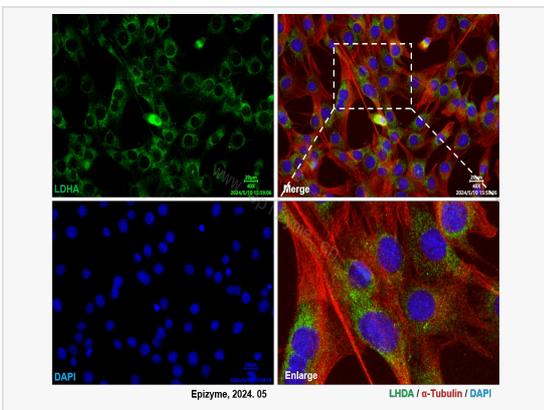
Synonyms	Cell proliferation inducing gene 19 protein, GSD11, L lactate dehydrogenase B chain, L lactate dehydrogenase A chain, Lactate dehydrogenase A, Lactate dehydrogenase B, Lactate dehydrogenase c variant 1, Lactate dehydrogenase c variant 3, Lactate dehydrogenase c variant 4, Lactate dehydrogenase C4, Lactate dehydrogenase H chain, Lactate dehydrogenase M, LDH A, LDH B, LDH H, LDH heart subunit, LDH M, LDH muscle subunit, LDH A, LDH M, LDH1, ldha, LDHA_HUMAN, LDHBD, LDHM, MS1111, PIG19, Proliferation inducing gene 19, Proliferation inducing gene 19, Renal carcinoma antigen NY REN 46, Renal carcinoma antigen NY REN 59, TRG 5, TRG5.
Calculated MW	Calculated MW: 37 kDa; Observed MW: 35 kDa
Uniprot ID	P00338
Gene ID	3939
Background	Lactate dehydrogenase (LDH) catalyzes the interconversion of pyruvate and NADH to lactate and NAD <sup>+</sup> . When the oxygen supply is too low for mitochondrial ATP production, this reaction recycles NADH generated in glycolysis to NAD <sup>+</sup> , which reenters glycolysis. The major form of LDH found in muscle cells is the A (LDHA) isozyme.



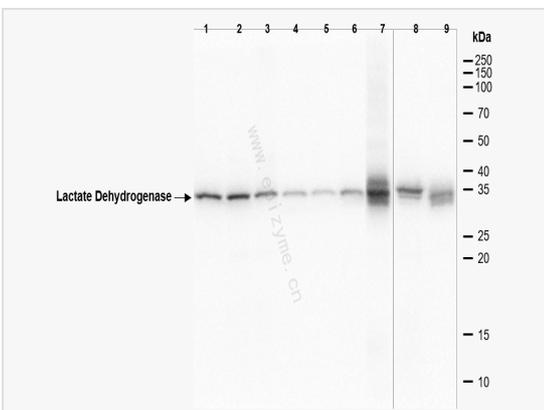
Immunofluorescence - Anti-Lactate Dehydrogenase Rabbit mAb [84A20C39]  
 Sample: Paraformaldehyde-fixed, paraffin embedded mouse skeletal muscle tissue  
 The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.  
 Primary antibody: R013758 at 1:100 dilution  
 Secondary antibody: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green)  
 Nuclei were stained with DAPI (shown in blue).



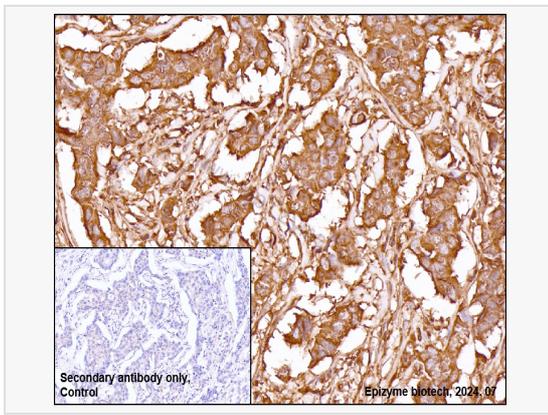
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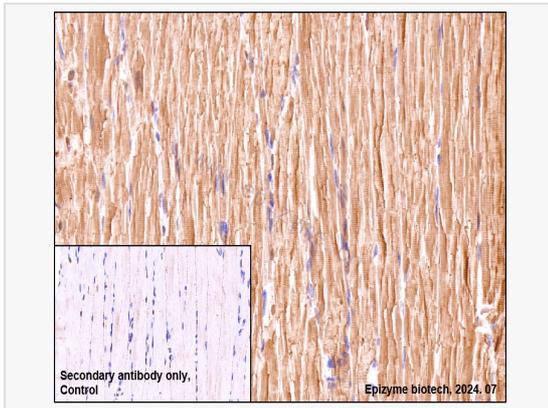
Immunofluorescence - Anti-Lactate Dehydrogenase Rabbit mAb [84A20C39]  
 Sample: C2C12 cells  
 The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.  
 Primary antibodies: R013758 at 1:100 dilution and  $\alpha$ -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution  
 Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (CY3) at 1:1,000 dilution (shown in red)  
 Nuclei were stained with DAPI (shown in blue).



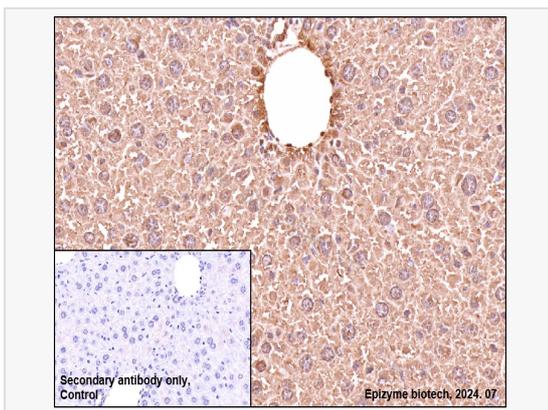
Western Blot - Anti- Anti-Lactate Dehydrogenase Rabbit mAb [20F39B91]  
 All lanes: R013758 at 1:1,000 dilution  
 Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates  
 Lane 2: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates  
 Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates  
 Lane 4: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates  
 Lane 5: U2OS (Human osteosarcoma epithelial cell) whole cell lysates  
 Lane 6: SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates  
 Lane 7: Rat heart whole tissue lysates  
 Lane 8: Balb/c mouse kidney whole tissue lysates  
 Lane 9: Balb/c mouse brain whole tissue lysates  
 Lysates/proteins at 10  $\mu$ g per lane.  
 Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution  
 Predicted band size: 37 kDa  
 Observed band size: 35 kDa  
 Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Lactate Dehydrogenase Rabbit mAb [84A20C39]  
 Sample: Paraformaldehyde-fixed, paraffin embedded human breast carcinoma tissue  
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.  
 Primary antibody: R013758 at 1:200 dilution  
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution  
 DAB was used as the chromogen.  
 Counter stained with hematoxylin.  
 Positive/negative staining were presented.  
 Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Lactate Dehydrogenase Rabbit mAb [84A20C39]  
 Sample: Paraformaldehyde-fixed, paraffin embedded rat muscle tissue  
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.  
 Primary antibody: R013758 at 1:200 dilution  
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution  
 DAB was used as the chromogen.  
 Counter stained with hematoxylin.  
 Positive/negative staining were presented.  
 Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Lactate Dehydrogenase Rabbit mAb [84A20C39]  
 Sample: Paraformaldehyde-fixed, paraffin embedded mouse liver tissue  
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.  
 Primary antibody: R013758 at 1:200 dilution  
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution  
 DAB was used as the chromogen.  
 Counter stained with hematoxylin.  
 Positive/negative staining were presented.  
 Only the secondary antibody was used as the negative control.