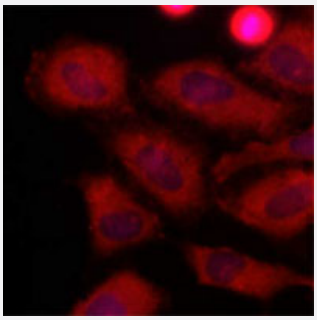
LDHA monoclonal antibody, clone AT1A4

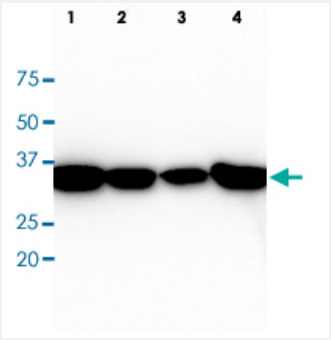
Catalog # MAB8700 Size 100 uL

Applications



Immunofluorescence

Immunofluorescence of human HeLa cells stained with Hoechst 3342 (Blue) for nucleus staining and LDHA monoclonal antibody, clone AT1A4 (Cat # MAB8700) (1 : 500) with Texas Red (Red).



Western Blot (Cell lysate)

Western blot analysis of Lane 1: Jurkat cell lysate, Lane 2: 293T cell lysate, Lane 3: A431 cell lysate, Lane 4: HeLa cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant LDHA.
Immunogen	Recombinant protein corresponding to full length human LDHA.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Concentration	1 mg/mL

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Isotype	IgG2b, kappa
Recommend Usage	ELISA Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescence of human HeLa cells stained with Hoechst 3342 (Blue) for nucleus staining and LDHA monoclonal antibody, clone AT1A4 (Cat # MAB8700) (1 : 500) with Texas Red (Red).

- Immunocytochemistry

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot analysis of Lane 1: Jurkat cell lysate, Lane 2: 293T cell lysate, Lane 3: A431 cell lysate, Lane 4: HeLa cell lysate.

Gene Info — LDHA

Entrez GeneID	3939
Protein Accession#	NP_005557
Gene Name	LDHA
Gene Alias	LDH-M, LDH1, PIG19
Gene Description	lactate dehydrogenase A
Omim ID	150000
Gene Ontology	Hyperlink

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Gene Summary	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. [provided by RefSeq
Other Designations	L-lactate dehydrogenase A|proliferation-inducing gene 19

Publication Reference

- Inhibition of lactate dehydrogenase A induces oxidative stress and inhibits tumor progression.

  Le A, Cooper CR, Gouw AM, Dinavahi R, Maitra A, Deck LM, Royer RE, Vander Jagt DL, Semenza GL, Dang CV.

  PNAS 2010 Jan; 107(5):2037.

- The ldhA gene, encoding fermentative L-lactate dehydrogenase of Corynebacterium glutamicum, is under the control of positive feedback regulation mediated by LldR.

  Toyoda K, Teramoto H, Inui M, Yukawa H.

  Journal of Bacteriology 2009 May; 191(13):4251.

- LDH-A inhibition, a therapeutic strategy for treatment of hereditary leiomyomatosis and renal cell cancer.

  Xie H, Valera VA, Merino MJ, Amato AM, Signoretti S, Linehan WM, Sukhatme VP, Seth P.

  Molecular Cancer Therapeutics 2009 Mar; 8(3):626.

Pathway

- Cysteine and methionine metabolism
- Glycolysis / Gluconeogenesis
- Metabolic pathways
- Propanoate metabolism
- Pyruvate metabolism

Disease

- Coronary Disease

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- Genetic Predisposition to Disease
- Hypertension
- Narcolepsy
- Panic Disorder

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