

## Product datasheet for **AM09366PU-N**

### LDHA Mouse Monoclonal Antibody [Clone ID: AT1A4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AT1A4
Applications:	ELISA, IF, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western blot</b> (1/500-1/8000). <b>Immunofluorescence</b> (1/500-1/8000).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant Human LDHA (1-332aa) purified from E. coli
Specificity:	The antibody recognizes Human LDHA. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	lactate dehydrogenase A
Database Link:	<a href="#">Entrez Gene 3939 Human P00338</a>



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**Background:**

Lactate through lactate dehydrogenase A (LDHA), which is encoded by a target gene of c-Myc and hypoxia-inducible factor (HIF-1). LDHA expression is repressed by SugR in the absence of sugar. Reduction of LDHA causes bioenergetic and oxidative stress leading to cell death. LDHA (LDH-5, M-LDH, or A4), which is the predominant form in skeletal muscle, kinetically favors the conversion of pyruvate to lactate. Therefore, LDH-A is an attractive target for cancer therapy since its expression is largely relegated to skeletal muscle.

**Synonyms:**

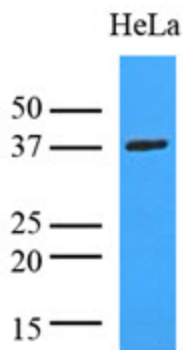
LDH-A, L-lactate dehydrogenase A chain, LDH-M, PIG19, NY-REN-59

**Protein Families:**

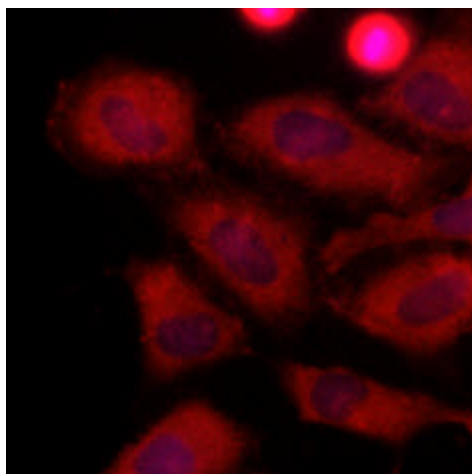
Druggable Genome

**Protein Pathways:**

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

**Product images:**

Western blot analysis: Cell lysates of HeLa (35 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human LDHA (1:8000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunofluorescence of human HeLa cells stained with Hoechst 3342 (Blue) for nucleus staining and monoclonal anti-human LDHA antibody (1:500) with Texas Red (Red).