

Mouse anti-Human Lactate Dehydrogenase A/LDHA Monoclonal Antibody | anti-LDHA antibody

Lactate Dehydrogenase A/LDHA

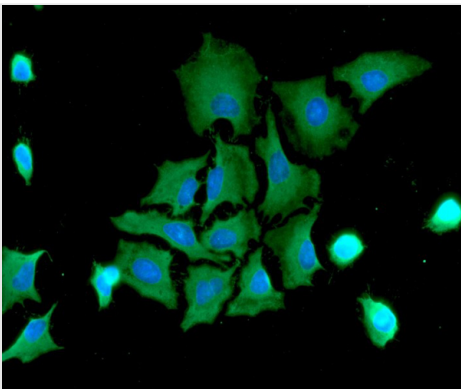
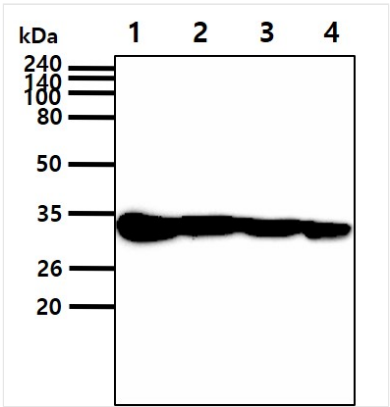
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48340	Mouse	Human	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

Lactate Dehydrogenase A/LDHA; Monoclonal Antibody; L-lactate dehydrogenase A chain; GSD11; LDH1; LDHM; PIG19; L-lactate dehydrogenase A chain Cell proliferation-inducing gene 19 protein; LDH muscle subunit; M LDH; L lactate dehydrogenase A chain; I7R2; Lactate dehydrogenase 1; A chain; Lactate dehydrogenase A; Lactate dehydrogenase A4; Lactate dehydrogenase M; OTTMuSP00000017774; Proliferation-inducing gene 19; Renal carcinoma antigen NY-REN-59; anti-LDHA antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b kappa
Clone Number	AT1A4
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	332
Applicable Applications for anti-LDHA antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human LDHA (1-332aa) purified from E.coli
Conjugation	Unconjugated
Preparation and Storage	Can be stored at 2 degree C to 8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles.



WB (Western Blot)
The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human HSP60 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate Lane 2.: Jurkat cell lysate Lane 3.: 293T cell lysate Lane 4.: A431 cell lysate

FCM/FACS (Flow Cytometry)
Flow cytometry analysis of Lactate Dehydrogenase A/LDHA in HeLa cells. The cell was stained at 2-5ug for 1x10⁶cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

ADDITIONAL INFORMATION

Related Product Information for anti-LDHA antibody	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.
Product Categories/Family for anti-LDHA antibody	Cancer
References	Le A, et al. (2010) Proc Natl Acad Sci U S A, 107(5):2037-42.; Xie H, et al. (2009) Mol Cancer Ther, 8(3):626-35.; Toyoda K, et al. (2010) J Bacteriol, 191(13):4251-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031857
NCBI GeneID	3939
NCBI Accession #	NP_005557
NCBI GenBank Nucleotide #	NP_005557.1
UniProt Accession #	P00338
NCBI Official Full Name	L-lactate dehydrogenase A chain isoform 1
NCBI Official Synonym Full Names	lactate dehydrogenase A
NCBI Official Symbol	LDHA
NCBI Official Synonym Symbols	LDHM; GSD11; PIG19; HEL-S-133P
NCBI Protein Information	L-lactate dehydrogenase A chain
UniProt Protein Name	L-lactate dehydrogenase A chain
UniProt Gene Name	LDHA
UniProt Synonym Gene Names	LDH-A; LDH-M
UniProt Entry Name	LDHA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/lactate-dehydrogenase-a-ldha-antibody-clone-at1a4-immunofluorescence-immunocytochemistry-western-blot-elisa/48340>