PRODUCT INFORMATION

Catalog number ATGA0180

Clone No. AT1A4

Product type Monoclonal Antibody

UnitProt No. P00338

NCBI Accession No. NP_005557

Alternative Names

Lactate dehydrogenase A, L-lactate dehydrogenase A chain, Cell proliferation-inducing gene 19 protein, PIG19, LDH muscle subunit, LDH-M, Renal carcinoma antigen NY-REN-59

PRODUCT SPECIFICATION

Antibody Host Mouse

Reacts With

Human

Concentration 1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human LDHA (1-332aa) purified from E.coli

lsotype

lgG2b kappa

Purification Note By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Lactate through lactate dehydrogenase A (LDHA), which is encoded by a target gene of c-Myc and hypoxiainducible 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.

General 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.

DATA

Western blot analysis (WB)



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.: Jurkat cell lysate Lane 2.: 293T cell lysate Lane 3.: A431 cell lysate Lane 4.: HeLa cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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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).