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## Human Lactate Dehydrogenase B/LDHB antibody

Catalog Number: ATGA0365

## **PRODUCT INFORMATION**

## Catalog number

ATGA0365

#### Clone No.

AT14D7

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P07195

#### **NCBI Accession No.**

NP 002291

#### **Alternative Names**

Renal carcinoma antigen NY-REN-46, Lactate dehydrogenase B, L-lactate dehydrogenase B chain, LDH-H, LDH-B, LDH heart subunit

## **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 LDHB (1-334aa) purified from E. coli

## Isotype

IgG2a kappa

### **Purification Note**

By protein-A 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.



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## **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**

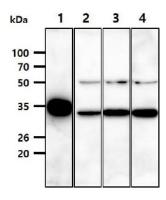
LDHB, also known as L-lactate dehydrogenase B chain, is a member of the lactate dehydrogenase family. It is an oxidoreductase which catalyses the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD+. As this protein can also catalyze the oxidation of hydroxybutyrate, it is occasionally called Hydroxybutyrate Dehydrogenase (HBD). The LDH family consists of three members, LDH-A, LDH-B and LDH-C. LDHs function as powerful markers for germ cell tumors.

## **General References**

Read JA., et al. (2001) Proteins. 43(2): 175-185. Butt AA., et al. (2002) AIDS. 12(7): 317-321.

## **DATA**

## Western blot analysis (WB)

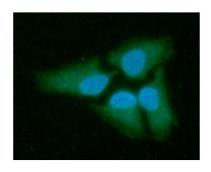


The Recombinant Human LDHB (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human LDHB antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant LDHB protein

Lane 2. : A549 cell lysate Lane 3. : 293T cell lysate Lane 4. : Jurkat cell lysate

## Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of LDHB in HeLa cells. The cell was stained with ATGA0365 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

