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## **Human DECR1 antibody**

Catalog Number: ATGA0431

## **PRODUCT INFORMATION**

## Catalog number

ATGA0431

#### Clone No.

AT3B2

## **Product type**

Monoclonal Antibody

#### UnitProt No.

Q16698

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

NP 001350

#### **Alternative Names**

24-dienoyl-CoA reductase mitochondrial, 2,4-dienoyl-CoA reductase, mitochondrial, DECR, NADPH, SDR18C1

## **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 DECR1 (35-335aa) purified from E. coli

## Isotype

IgG2b kappa

## **Purification Note**

By protein-A affinity chromatography

## **Application**

ELISA, WB, FACS, ICC/IF

### Usage

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF 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**

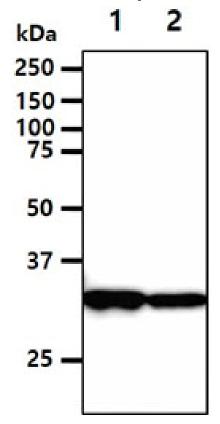
DECR1 is a mitochondrial protein that exists as a homotetramer and belongs to the family of short-chain dehydrogenases/reductases. It functions as an auxiliary enzyme of beta-oxidation andt participates in the metabolism of unsaturated fatty enoyl-CoA esters. Specifically, DECR1 uses NADP+ to catalyze the reduction of 2, 4-dienoyl-CoA to yield trans-3-enoyl-CoA, which can then be used as an intermediate in the Krebs cycle. Additionally, DECR1 is thought to function as a tumor suppressor, possibly downregulating the expression of Neu and slowing the rate of tumorigenesis.

#### **General References**

Koivuranta KT., et al. (1994) Biochem J. 304(3): 787-92. Roe CR., et al. (1990) J Clin Invest. 85(5): 1703-7.

#### **DATA**

## Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human DECR1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

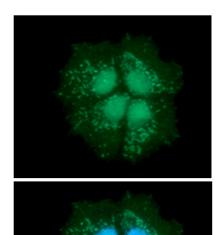
Lane 1.: PC3 cell lysate Lane 2.: HepG2 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



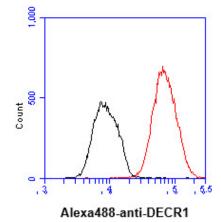
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ICC/IF analysis of DECR1 in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human DECR1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

Flow cytometry (FACS)



Flow cytometry analysis of DECR1 in Hep3B cell line, staining at 2-5ug for 1x106cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

