

Human Ornithine Decarboxylase/ODC1 antibody

Catalog Number: ATGA0507

PRODUCT INFORMATION

Catalog number

ATGA0507

Clone No.

AT9B3

Product type

Monoclonal Antibody

UnitProt No.

P11926

NCBI Accession No.

NP_002530

Alternative Names

Ornithine decarboxylase, ODC

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 ODC1 (1-461aa) purified from E. coli

Isotype

IgG2b 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.

Storage

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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

Ornithine decarboxylase, also known as ODC1, is the initial and rate-limiting enzyme in the biosynthetic pathway of polyamines and is involved in the conversion of ornithine to putrescine. ODC1 plays an important role in diverse biological processes, including cell growth, differentiation, transformation and apoptosis. Overexpression of the ODC1 gene plays important roles in cell proliferation and the development of cancer.

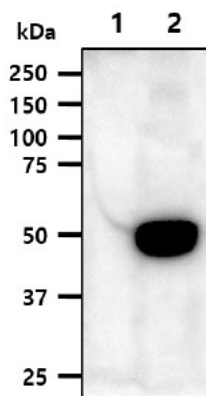
General References

Moshier J A., et al. (1992) Genomics. 1:77-86.

Yang Feng T L., et al. (1996) Genomics. 36:449-458.

DATA

Western blot analysis (WB)

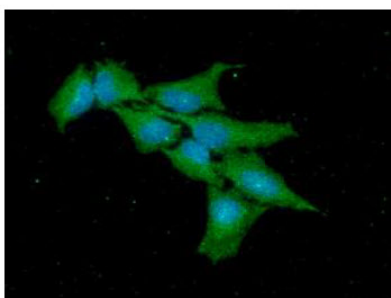


The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ODC1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

Lane 2.: ODC1 transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of ODC1 in HeLa cells. The cell was stained with ATGA0507 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).