

Human TDP1 antibody

Catalog Number: ATGA0157

PRODUCT INFORMATION

Catalog number

ATGA0157

Clone No.

AT1F2

Product type

Monoclonal Antibody

UnitProt No.

Q9NUW8

NCBI Accession No.

NP_060789

Alternative Names

tyrosyl-DNA phosphodiesterase 1, FLJ11090, SCAN1

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 TDP1 (1-298aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS 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

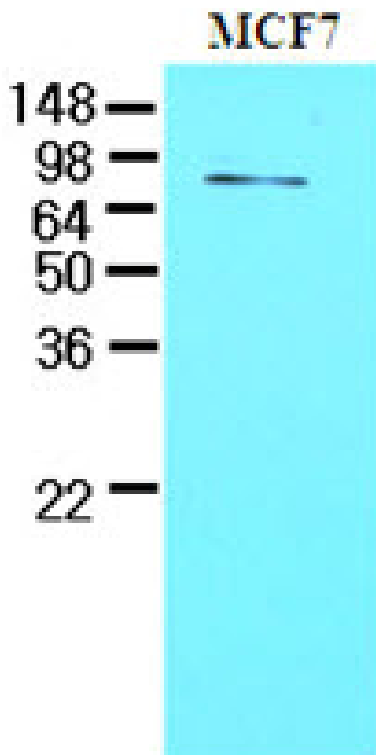
Tyrosyl-DNA phosphodiesterase (TDP1) is a DNA repair enzyme that catalyzes the hydrolysis of a phosphodiester bond between a tyrosine residue and a DNA 3' phosphate. This protein is a member of the phospholipase D (PLD) superfamily and contains two PLD phosphodiesterase domains. Mutations in TDP1 are associated with the disease spinocerebellar ataxia with axonal neuropathy (SCAN1) by interfering with DNA transcription or by inducing apoptosis in postmitotic neurons.

General References

Dexheimer TS, et al., (2008) *Anticancer Agents Med Chem.* 8(4):381-9.
El-Khamisy SF, Caldecott KW., (2006) *Mutagenesis.* 21(4):219-24.

DATA

Western blot analysis (WB)

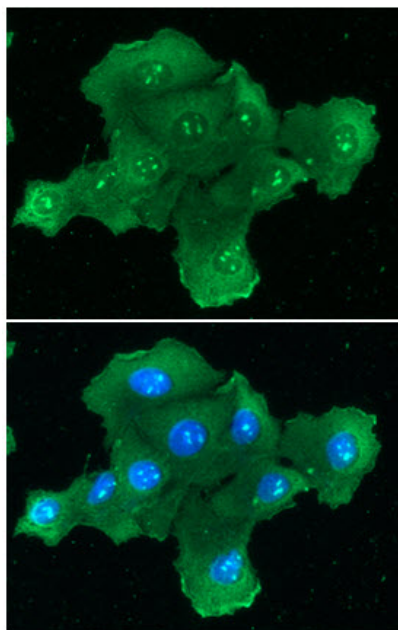


The cell lysate of MCF7(30ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TDP1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)

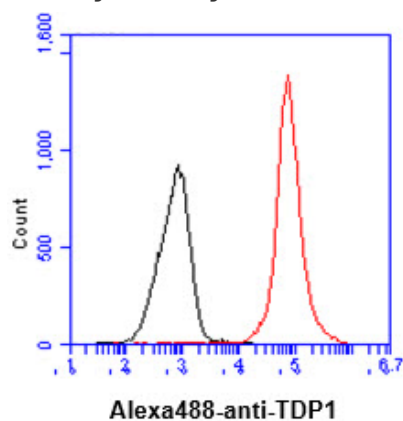
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ICC/IF analysis of TDP1 in Hep3B cells. The cell was stained with ATGA0157 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of TDP1 in Jurkat cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).