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Human DJ-1/PARK7 antibody

Catalog Number: ATGA0292

PRODUCT INFORMATION

Catalog number

ATGA0292

Clone No.

AT1E12

Product type

Monoclonal Antibody

UnitProt No.

Q99497

NCBI Accession No.

NP 009193

Alternative Names

Parkinson disease protein 7, Parkinsonism associated deglycase, parkinson protein 7, Parkinson disease autosomal recessive early onset 7, Maillard deglycase, Oncogene DJ1, Protein DJ-1, DJ-1, DJ1, GATD2, Protein/nucleic acid deglycase DJ-1

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 Park7/DJ-1 (1-189aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-A 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

Parkinson disease (autosomal recessive, early onset) 7, also known as PARK7/DJ-1, has been shown to interact with EFCAB6 and protein inhibitor of activated STAT2. Defects in PARK7 are the cause of autosomal recessive early-onset Parkinson's disease 7. This protein belongs to the peptidase C56 family of proteins. It acts as a positive regulator of androgen receptor-dependent transcription. It may also function as a redox-sensitive chaperone, as a sensor for oxidative stress, and it apparently protects neurons against oxidative stress and cell death.

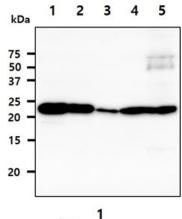
General References

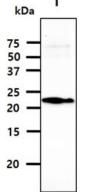
Entrez Gene: PARK7

Bonifati V., et al. (2003) Science 299 (5604): 256-259. Takahashi K., et al. (2001) J. Biol. Chem. 276 (40): 37556-63.

DATA

Western blot analysis (WB)





The cell and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PARK7 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: Jurkat cell lysate Lane 3.: NIH3T3 cell lysate

Lane 4.: Mouse brain tissue lysate Lane 5.: Mouse liver tissue lysate

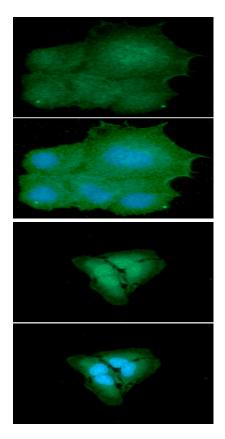
The tissue lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PARK7 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Mouse Kidney tissue lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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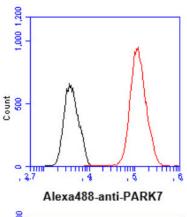
Flow cytometry (FACS)

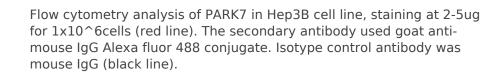
ICC/IF analysis of PARK7 in Hep3B cells. The cell was stained with ATGA0292 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

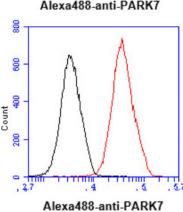
ICC/IF analysis of PARK7 in HeLa cells. The cell was stained with ATGA0292 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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Flow cytometry analysis of PARK7 in HeLa cell line, staining at 2-5ug for $1x10^6$ (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).