# **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

lgG2b 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.



#### 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)



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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Alexa488-anti-PARK7

Flow cytometry analysis of PARK7 in Hep3B cell line, staining at 2-5ug for 1x10<sup>6</sup>cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

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

