

Anti-PARK7/DJ-1 Antibody (9L104)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9L104
Purification:	Protein A

Applications

1. Immunofluorescence staining of Human PARK7 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human PARK7 monoclonal antibody (1:60) at 37°C 1 hour. Then cells were stained with the Alexa Fluor® 594-conjugated Goat Anti-rabbit IgG secondary antibody (red) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.
 2. Flow cytometric analysis of Human PARK7 expression on HeLa cells. The cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with purified anti-Human PARK7, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
 3. Anti-PARK7 rabbit monoclonal antibody at 1:1000 dilution.
 - Lane A: HeLa Whole Cell Lysate.
 - Lane B: Jurkat Whole Cell lysate.
 - Lysates/proteins at 30 µg per lane.
 - Secondary
 - Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.
- Verified Activity:
- Developed using the Odyssey technique.
 - Performed under reducing conditions.
 - Predicted band size:20 kDa.
 - Observed band size:24 kDa.
4. PARK7 was immunoprecipitated using:
 - Lane A:0.5 mg Jurkat Whole Cell Lysate.
 - Lane B:0.5 mg HeLa Whole Cell Lysate.
 - Lane C:0.5 mg 293T Whole Cell Lysate.
 - 2 µL anti-PARK7 rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose.
 - Primary antibody:
 - Anti-PARK7 rabbit monoclonal antibody, at 1:1000 dilution.
 - Secondary antibody:
 - Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.
 - Developed using the odyssey technique.
 - Performed under reducing conditions.
 - Predicted band size: 20 kDa.
 - Observed band size: 20 kDa

A DRUG SCREENING EXPERT

Application: FCM,ICC/IF,IP,WB

Recommended WB: 1:1000-1:5000; ICC-IF: 1:20-1:100; FCM: 1:25-1:100; IP: 1-4 µL/mg of lysate

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human PARK7 / DJ-1 protein (TMPY-02043)

Antigen Species: Human

Synonyms: DJ-1;parkinson protein 7;HEL-S-67p;DJ1

Research Background

Parkinson's disease locus DJ-1 (PARK7) is a differentially expressed transcript. DJ-1 plays a physiologic role in protection of erythroid cells from oxidant damage, a function unmasked in the context of oxidative stress. PARK7 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. Mutations in the DJ-1 gene are associated with rare forms of autosomal recessive early-onset Parkinson's disease (PD). DJ-1/p53 interactions contribute to apoptosis resistance in clonal myeloid cells and may serve as a prognostic marker in patients with myelodysplastic syndromes (MDS). DJ-1 regulates redox signaling kinase pathways and acts as a transcriptional regulator of antioxidative gene batteries. Therefore, DJ-1 is an important redox-reactive signaling intermediate controlling oxidative stress after ischemia, upon neuroinflammation, and during age-related neurodegenerative processes. Augmenting DJ-1 activity might provide novel approaches to treating chronic neurodegenerative illnesses such as Parkinson's disease and acute damage such as stroke.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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