For Research Use Only

PARK7/DJ-1 Monoclonal antibody, PBS Only

Catalog Number:68915-6-PBS

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Basic Information

Catalog Number:
68915-6-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG28526

GenBank Accession Number:
BC008188

GeneID (NCBI):
11315

UNIPROT ID:
Q99497

Full Name:
Parkinson disease (autosomal recessive, early onset) 7

Calculated MW:
189 aa, 20 kDa

Observed MW:
20-25 kDa

Purification Method:
Protein A purification

CloneNo.:
4G4E7

Applications

Tested Applications:
WB, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse, rat, pig, rabbit

Background Information

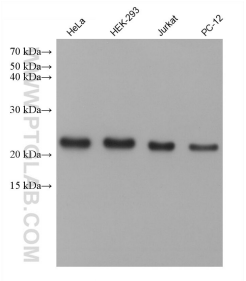
PARK7, also named as DJ1, belongs to the peptidase C56 family. It protects cells against oxidative stress and cell death. PARK7 plays a role in regulating expression or stability of the mitochondrial uncoupling proteins SLC25A14 and SLC25A27 in dopaminergic neurons of the substantia nigra pars compacta and attenuates the oxidative stress induced by calcium entry into the neurons via L-type channels during pacemaking. It eliminates hydrogen peroxide and protects cells against hydrogen peroxide-induced cell death. PARK7 has cell-growth promoting activity and transforming activity. It may function as a redox-sensitive chaperone. It's precursor undergoes a cleavage of a C-terminal peptide and subsequent activation of protease activity in response to oxidative stress. The amino acid replace at 166 (L → P) reduces PARK7 protein stability and leads to increased degradation. The predicted MW of this protein is 20 kDa, An additional 25 kDa band can be observed due to modification (PMID: 31767755).

Storage

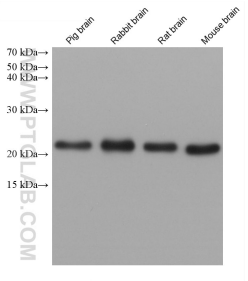
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68915-6-Ig (PARK7/DJ-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68915-6-PBS in a different storage buffer formulation.



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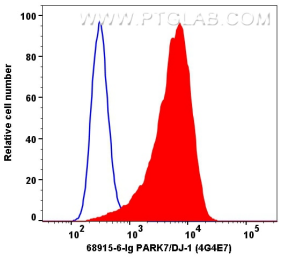
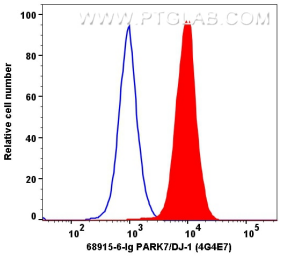
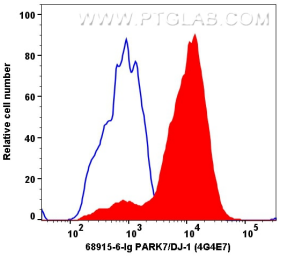


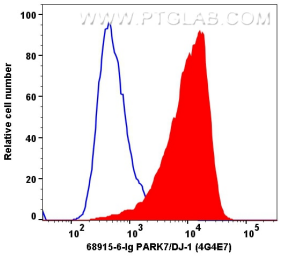
1x10^6 SKOV-3 cells were intracellularly stained with 0.2 µg PARK7/DJ-1 Monoclonal antibody (68915-6-Ig, Clone: 4G4E7, red) and CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO.RGAM005). Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA. This data was developed using the same antibody clone with 68915-6-PBS in a different storage buffer formulation.



1x10^6 HeLa cells were intracellularly stained with 0.2 µg PARK7/DJ-1 Monoclonal antibody (68915-6-Ig, Clone: 4G4E7, red) and CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO.RGAM005). Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA. This data was developed using the same antibody clone with 68915-6-PBS in a different storage buffer formulation.



1x10^6 Jurkat cells were intracellularly stained with 0.2 µg PARK7/DJ-1 Monoclonal antibody (68915-6-Ig, Clone: 4G4E7, red) and CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO.RGAM005). Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA. This data was developed using the same antibody clone with 68915-6-PBS in a different storage buffer formulation.



1x10^6 Raji cells were intracellularly stained with 0.2 µg PARK7/DJ-1 Monoclonal antibody (68915-6-Ig, Clone: 4G4E7, red) and CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO.RGAM005). Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA. This data was developed using the same antibody clone with 68915-6-PBS in a different storage buffer formulation.