

Park7 (DJ-1) Antibody
Mouse monoclonal antibody
Catalog # AN1214**Specification**

Park7 (DJ-1) Antibody - Product Information

Application	FC, WB, IF
Primary Accession	O88767
Reactivity	Bovine, Human, Mouse, Rat
Host	Mouse
Clonality	monoclonal
Isotype	IgG1
Calculated MW	21 KDa

Park7 (DJ-1) Antibody - Additional Information

Gene ID	117287
Gene Name	PARK7
Other Names	
Protein DJ-1, 34--, Contraception-associated protein 1, Protein CAP1, Fertility protein SP22, Parkinson disease protein 7 homolog, Park7, Cap1	

Target/Specificity

Full length recombinant human Park7 expressed in and purified from E. coli.

Dilution

FC~~1:500
WB~~ 1:2000
IF~~ 1:500

Format

Affinity purified from tissue culture supernatant

Antibody Specificity

Specific for the ~21k park7 protein

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Park7 (DJ-1) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

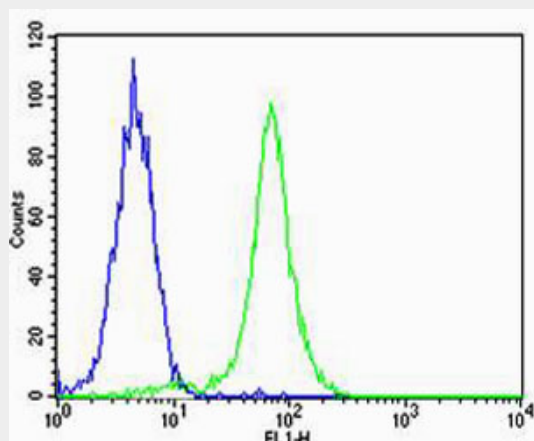
Blue Ice

Park7 (DJ-1) Antibody - Protocols

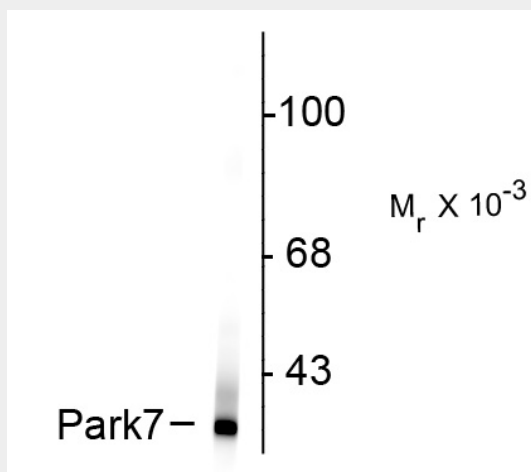
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

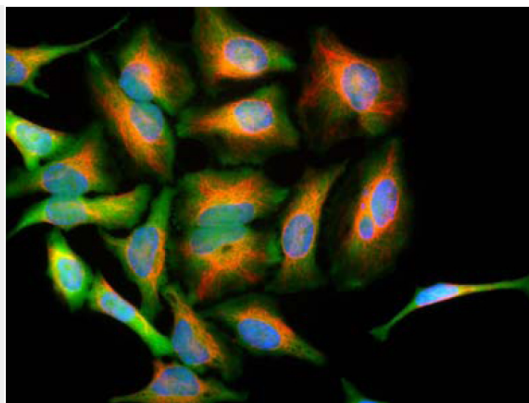
Park7 (DJ-1) Antibody - Images



Flow cytometric analysis of Hela cells using Park7 (DJ-1) Antibody(green, Cat#AN1214) compared to an isotype control of mouse IgG1(blue). AN1214 was diluted at 1:500 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.



Western blot of rat kidney lysate showing specific immunolabeling of the ~21k park7 protein.



Immunofluorescence of HeLa cells stained with anti-park7 (green) showing strong cytoplasmic staining and anti-vimentin antibody (red).

Park7 (DJ-1) Antibody - Background

Park7, also known as DJ-1, is a member of the peptidase C56 family of proteins and is thought to function as a molecular chaperone. Mutations in park7 have been associated with autosomal recessive, early onset Parkinson's disease (Bonifati et al., 2003). Recently, park7 has been shown to inhibit microtubule associated protein 1B aggregation thus leading to neuronal apoptosis (Wang et al., 2011).

Park7 (DJ-1) Antibody - References

Bonifati V, Rizzu P, van Baren MJ, Schaap O, Breedveld GJ, Krieger E, Dekker MC, Squitieri F, Ibanez P, Joosse M, van Dongen JW, Vanacore N, van Swieten JC, Brice A, Meco G, van Duijn CM, Oostra BA, Heutink P. (2003) Mutations in the DJ-1 gene associated with autosomal recessive early-onset parkinsonism. *Science*. Jan 10;299(5604):256-9

Wang Z, Zhang Y, Zhang S, Guo Q, Tan Y, Wang X, Xiong R, Ding J, Chen S. (2011) DJ-1 can inhibit microtubule associated protein 1 B formed aggregates. *Mol Neurodegener*. Jun 6;6:38