Datasheet for ABIN3032158

anti-PARK7/DJ1 antibody (AA 1-30)

3 Images

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Overview

Quantity:	0.4 mL
Target:	PARK7/DJ1 (PARK7)
Binding Specificity:	AA 1-30
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PARK7/DJ1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	A portion of amino acids 1-30 from the human protein was used as the immunogen for this DJ-1 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Bovine, Zebrafish
Purification:	Purified

Target Details

Target:	PARK7/DJ1 (PARK7)
Alternative Name:	DJ-1 (PARK7 Products)
Background:	Park7/DJ-1 acts as positive regulator of androgen receptor-dependent transcription, and may

Target Details

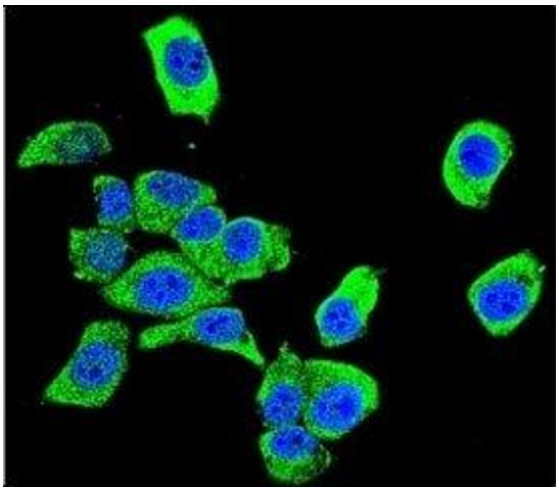
	function as redox-sensitive chaperone and as sensor for oxidative stress, as well as preventing aggregation of SNCA. This protein has been shown to protect neurons against oxidative stress and cell death, and to play a role in fertilization. It is detected in tau inclusions in brains from neurodegenerative disease patients, and is generally highly expressed in pancreas, kidney, skeletal muscle, liver, testis and heart, with detectable levels in placenta, brain, astrocytes, Sertoli cells, spermatogonia, spermatids and spermatozoa. Defects in Park7/DJ-1 are the cause of autosomal recessive early-onset Parkinson disease 7, a form of Parkinson disease characterized by onset before 40 years, slow progression and initial good response to levodopa.
UniProt:	Q99497
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Proton Transport

Application Details

Application Notes:	Titration of the DJ-1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,Immunofluorescence: 1:10-1:50
Restrictions:	For Research Use only

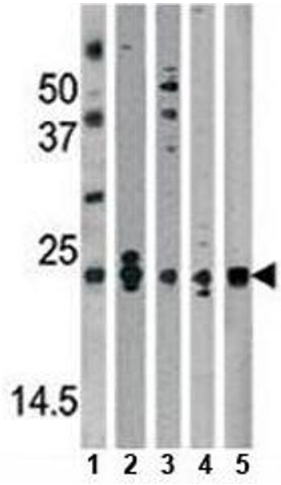
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the DJ-1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



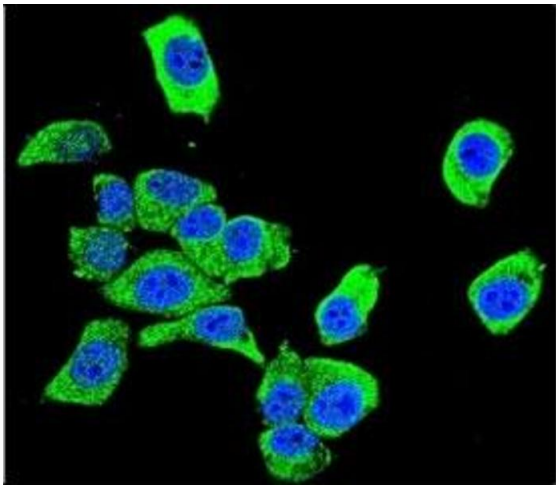
Immunofluorescence

Image 1. Confocal immunofluorescent analysis of DJ-1 antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used as a nuclear counterstain (blue).



Western Blotting

Image 2. Western blot analysis of DJ-1 antibody and mouse 1) brain, 2) kidney, 3) liver tissue lysate, 4) NIH3T3, and 5) human HeLa lysate. Predicted molecular weight ~23 kDa.



Immunofluorescence

Image 3. Confocal immunofluorescent analysis of DJ-1 antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used as a nuclear counterstain (blue).

