Nur für Forschungszwecke

PARK7,DJ-1 Polyklonaler Antikörper

Katalog-Nr.:11681-1-AP Vorgestelltes Produkt 14 Publikationen

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Allgemeine Informationen

Katalog-Nr.:
11681-1-AP

Größe:
150ul , Konzentration: 1200 μg/ml von Nanodrop;

Wirt:
Kaninchen

Isotyp:
IgG

Immunogen Katalognummer:
AG2287

GenBank-Zugangsnummer:
BC008188

GeneID (NCBI):
11315

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

Berechneté Masse:
189 aa, 20 kDa

Beobachteté Masse:
20 kDa, 25 kDa

Reinigungsmethode:
Antigen-Affinitätsreinigung

Empfohlene Verdünnungen:
WB 1:500-1:2000
IP 0.5-4.0 ug für IP und 1:500-1:2000 für WB
IHC 1:1000-1:4000
IF 1:20-1:200

Anwendungen

Geprüfte Anwendungen:
IF, IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:
IF, IHC, IP, WB

Getestete Reaktivität:
Human, Maus, Ratte

Zitierte Arten:
Human, Maus, Ratte

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

WB : HeLa-Zellen, HEK-293-Zellen, Jurkat-Zellen

IP : HeLa-Zellen,

IHC : humanes Gliomgewebe, humanes Leberkarzinomgewebe, humanes Nierengewebe, Maushirngewebe, Mausnierengewebe, Rattenhirngewebe, Rattenlebergewebe, Rattennierengewebe

IF : SH-SY5Y-Zellen,

Hintergrundinformationen

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).

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Salma Akter	30177848	Nat Chem Biol	WB
Jeng-Yuan Shiau	26557148	Evid Based Complement Alternat Med	WB
Koutarou Nakamura	34014921	PLoS Biol	IF

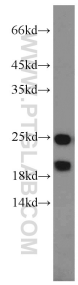
Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C lagerung

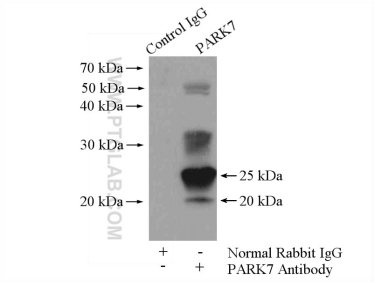
*** 20ul-Größen enthalten 0.1% BSA

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

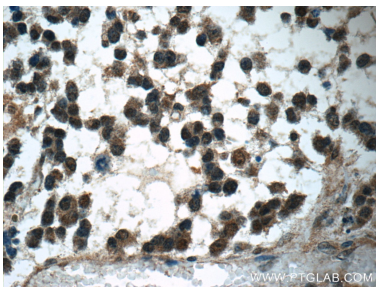
Ausgewählte Validierungsdaten



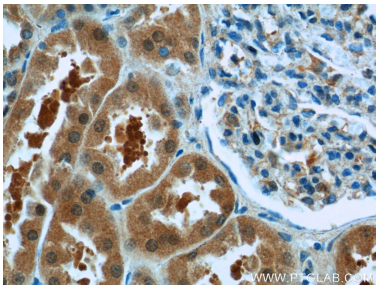
HeLa cells were subjected to SDS PAGE followed by western blot with 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



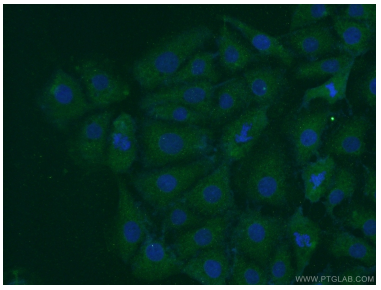
IP Result of anti-PARK7,DJ-1 (IP:11681-1-AP, 4ug; Detection:11681-1-AP 1:1000) with HeLa cells lysate 1200ug.



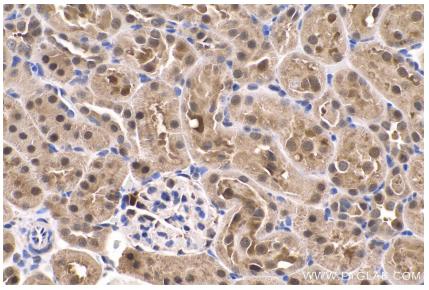
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 11681-1-AP (PARK7,DJ-1 Antibody) at dilution of 1:50 (under 40x lens).



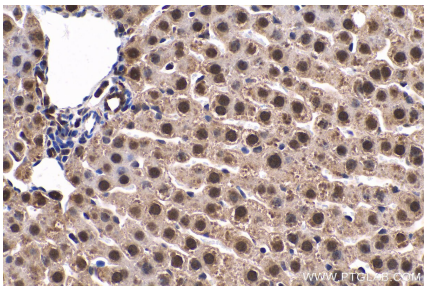
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 11681-1-AP (PARK7,DJ-1 Antibody) at dilution of 1:50 (under 40x lens).



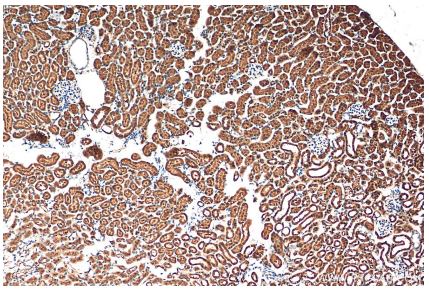
Immunofluorescent analysis of SH-SY5Y cells using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



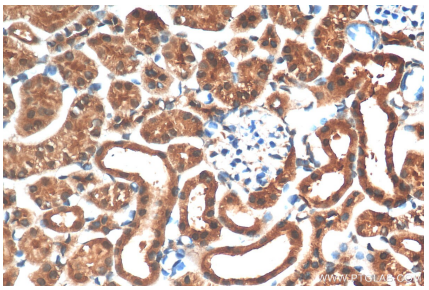
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



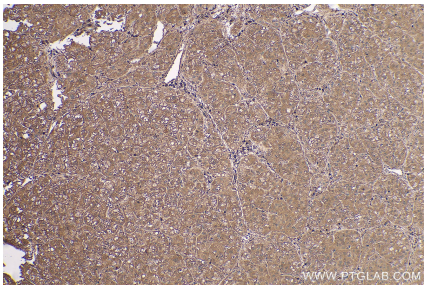
Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

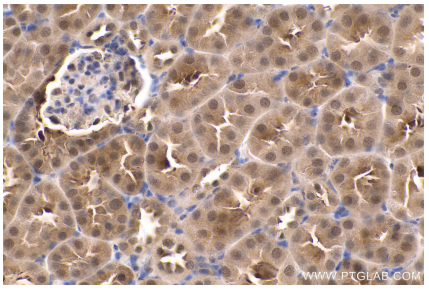


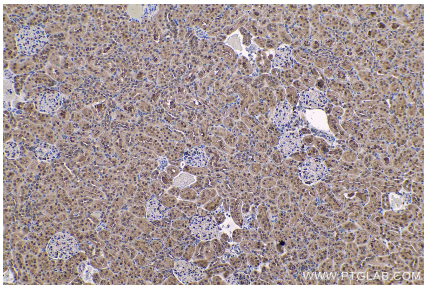
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



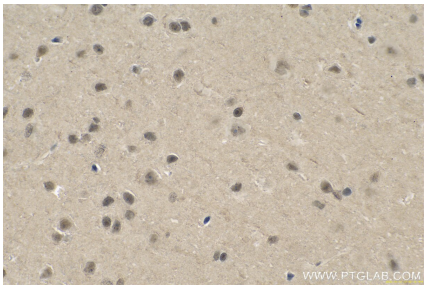
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



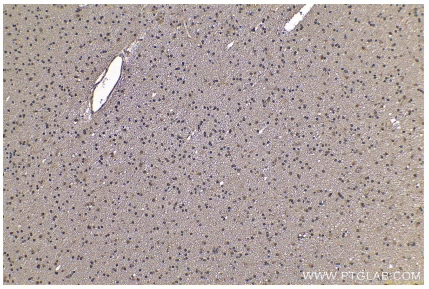




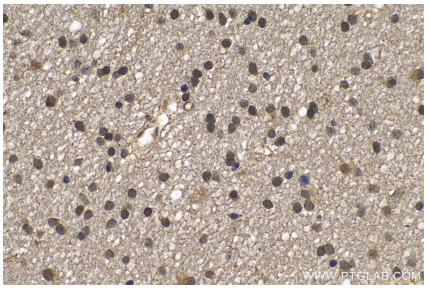
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



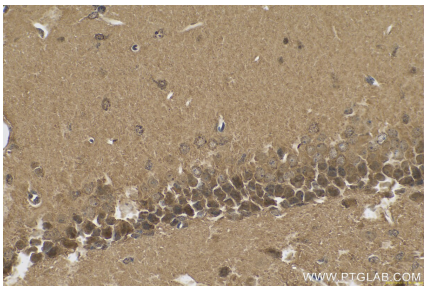
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11681-1-AP (PARK7,DJ-1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).