

For Research Use Only

# PARK2/Parkin Polyclonal antibody

Catalog Number: 14060-1-AP

Featured Product

206 Publications



## Basic Information

### Catalog Number:

14060-1-AP

### Size:

600 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5092

### GenBank Accession Number:

BC022014

### GeneID (NCBI):

5071

### UNIPROT ID:

O60260

### Full Name:

Parkinson disease (autosomal recessive, juvenile) 2, parkin

### Calculated MW:

52 kDa

### Observed MW:

42-52 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF 1:50-1:500

## Applications

### Tested Applications:

IF/ICC, IF-P, IHC, WB, ELISA

### Cited Applications:

WB, IP, IHC, IF, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, chicken, rat, cattle, mouse, ducks, rabbit, pig, bovine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** C6 cells, HEK-293 cells, mouse brain tissue, SH-SY5Y cells, PC-12 cells, mouse liver tissue

**IHC:** mouse kidney tissue, mouse brain tissue

**IF:** SH-SY5Y cells, mouse brain tissue, mouse heart tissue

## Background Information

Parkin, a RING-type E3 ubiquitin-protein ligase, is involved in the ubiquitination pathway and contributes to protection from neurotoxicity induced by unfolded protein stresses. Its ubiquitin-protein ligase activity promotes the degradation of a variety of proteins including itself. Mutations in Parkin are implicated in the pathogenesis of autosomal recessive familial Parkinson's disease. It has 8 isoforms produced by alternative splicing with molecular weights of 24, 31, 36 and 42-52 kDa. Sometimes an additional band of 70 kDa or 110 kDa may be detected, which is caused by ubiquitination modification or formation of Parkin complex (PMID: 10976934, PMID: 18190519).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wu Xiuquan	34600073	Neuroscience	IF, WB
Xudong Yao	30273654	Pharmacol Res	WB
Ying Chen	36163342	Cell Death Dis	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

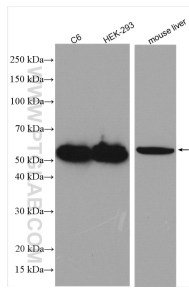
T: 4006900926

E: Proteintech-CN@ptglab.com

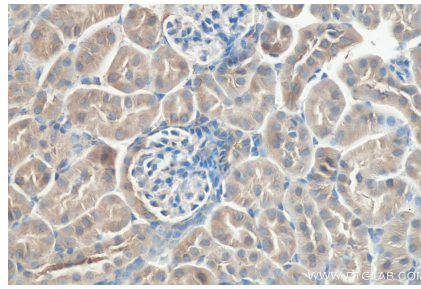
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

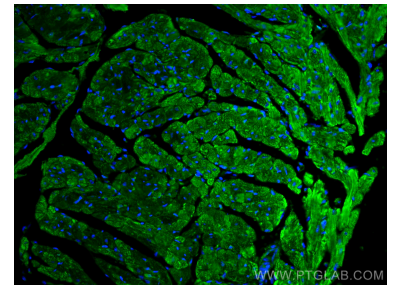
## Selected Validation Data



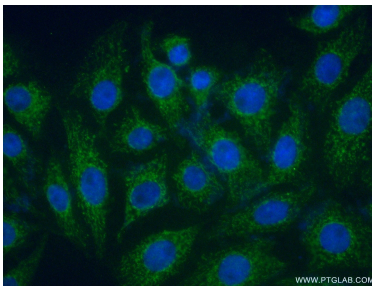
Various lysates were subjected to SDS PAGE followed by western blot with 14060-1-AP (PARK2/Parkin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 14060-1-AP (PARK2/Parkin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using PARK2/Parkin antibody (14060-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using 14060-1-AP (PARK2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).