For Research Use Only

PARK2/Parkin Polyclonal antibody

Catalog Number:14060-1-AP Featured Product 254 Publications

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
14060-1-AP

Size:
1000 ug/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-P 1:50-1:500
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, rabbit, monkey, chicken, bovine, cattle, ducks

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 liver tissue, PC-12 cells

IHC : mouse kidney tissue,

IF-P : mouse heart tissue, mouse brain tissue

IF/ICC : RAW 264.7 cells,

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

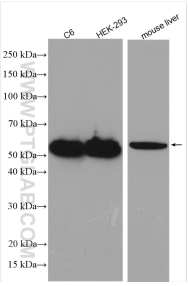
Author	Pubmed ID	Journal	Application
Wu Xiuquan	34600073	Neuroscience	IF,WB
Xudong Yao	30273654	Pharmacol Res	WB
Ying Chen	36163342	Cell Death Dis	WB

Storage

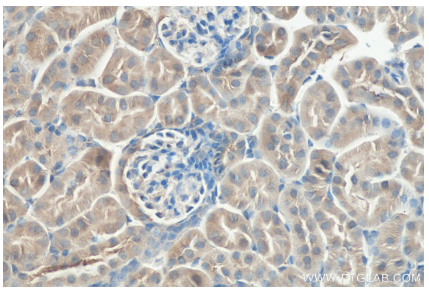
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

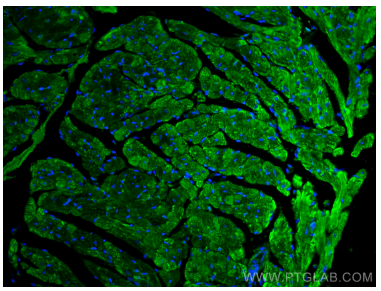
Selected Validation Data



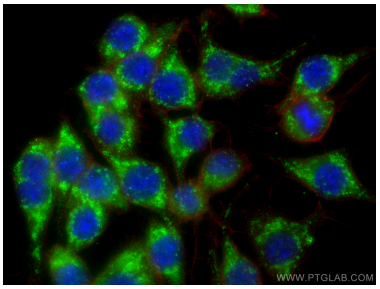
Various lysates were subjected to SDS PAGE followed by western blot with 14060-1-AP (PARK2/Parkin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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 Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed RAW 264.7 cells using PARK2/Parkin antibody (14060-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).