Product Datasheet

Parkin Rabbit mAb

Catalog No: #49374

Package Size: #49374-1 50ul #49374-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Parkin Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	JF82-09
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	AR JP antibody E3 ubiquitin ligase antibody E3 ubiquitin protein ligase parkin antibody E3 ubiquitin-protein ligase parkin antibody FRA6E antibody LPRS 2 antibody LPRS2 antibody PARK 2 antibody Park2 antibody Parkin 2 antibody Parkinson disease (autosomal recessive juvenile) 2 antibody Parkinson disease (autosomal recessive, juvenile) 2, parkin antibody Parkinson disease protein 2 antibody Parkinson juvenile disease protein 2 antibody Parkinson protein 2 E3 ubiquitin protein ligase antibody Parkinson protein 2, E3 ubiquitin protein ligase (parkin) antibody PDJ antibody PRKN 2 antibody PRKN antibody PRKN2 antibody PRKN2_HUMAN antibody Ubiquitin E3 ligase PRKN antibody
Accession No.	Swiss-Prot#:O60260
Calculated MW	52 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:500-1:1000

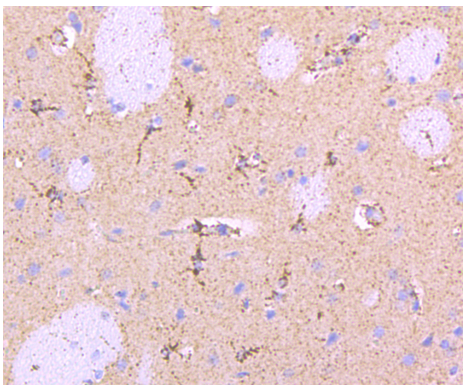
IHC: 1:50-1:200

ICC: 1:50-1:200

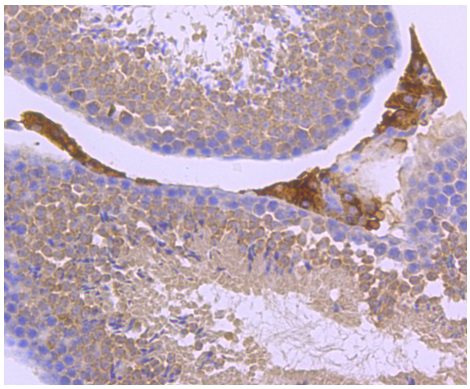
IP: 1:50

FC: 1:50-1:100

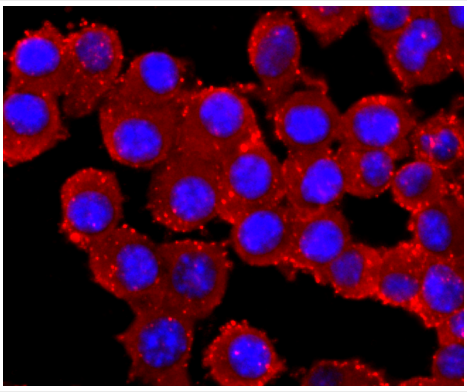
Images



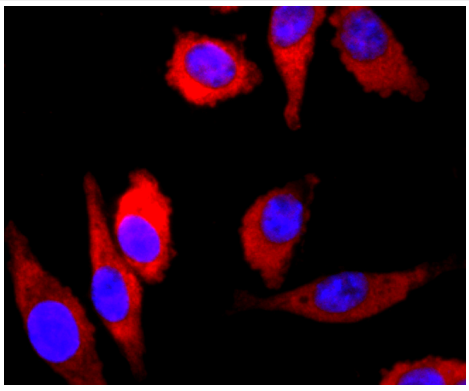
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Parkin antibody. Counter stained with hematoxylin.



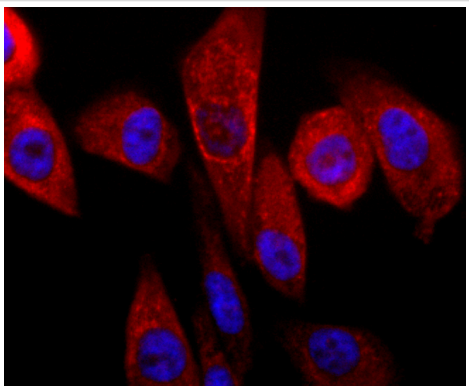
Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Parkin antibody. Counter stained with hematoxylin.



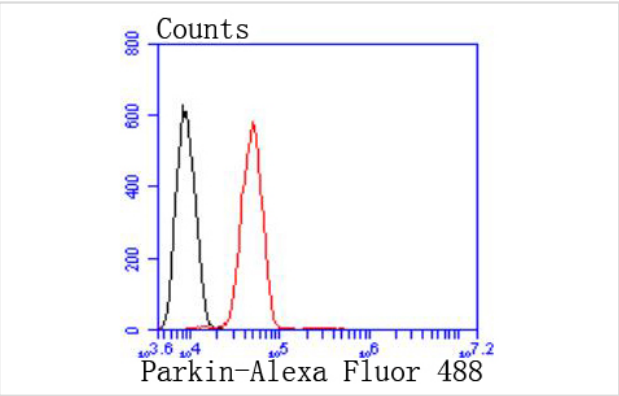
ICC staining Parkin in N2A cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



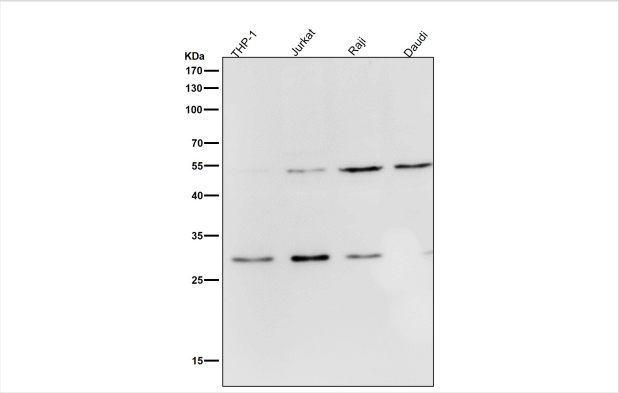
ICC staining Parkin in SH-SY-5Y cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



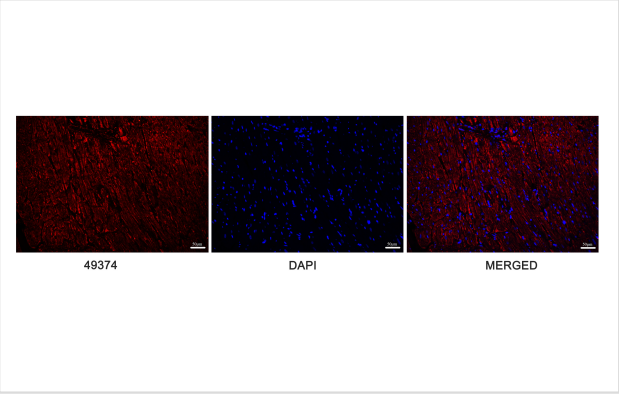
ICC staining Parkin in PC-3M cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of SH-SY-5Y cells with Parkin antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody



Western blot analysis of Parkin expression in Jurkat cell lysate.



Immunofluorescence staining of formalin-fixed Rat myocardial tissue using Parkin Rabbit mAb #49374(red).DAPI (blue) was used to stain the cell nuclei.

Background

Parkin is a zinc-finger protein that is related to ubiquitin at the amino terminus. The wild type Parkin gene, which maps to human chromosome 6q25.2-27, encodes a 465 amino acid full-length protein that is expressed as multiple isoforms. Mutations in the Parkin gene are responsible for autosomal recessive juvenile Parkinson's disease and commonly involve deletions of exons 3-5. In humans, Parkin is expressed in a subset of cells of the basal ganglia, midbrain, cerebellum and cerebral cortex, and is subject to alternative splicing in different tissues. Parkin expression is also high in the brainstem of mice, with the majority of immunopositive cells being neurons. The Parkin gene has been identified in a diverse group of organisms including mammals, birds, frog and fruit flies, suggesting that analogous functional roles of the Parkin protein may have been highly conserved during the course of evolution.

References

1. Lu Y et al. Beneficial effects of astragaloside IV against angiotensin II-induced mitochondrial dysfunction in rat vascular smooth muscle cells. Int J Mol Med 36:1223-32 (2015).
2. Seillier M et al. Defects in mitophagy promote redox-driven metabolic syndrome in the absence of TP53INP1. EMBO Mol Med 7:802-18 (2015).

Published Papers

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Chen Chaohong, Xie Zaoye, Ao Dang, Chen Yinhui, Liu Ling, Li Chengyan el at., Transcription factor EB improves hypoxic pulmonary hypertension in fetal rats by suppressing NLRP3 inflammasome activation via induction of mitophagy, Scientific reports, (2025)

PMID:40603451

Note: This product is for in vitro research use only and is not intended for use in humans or animals.