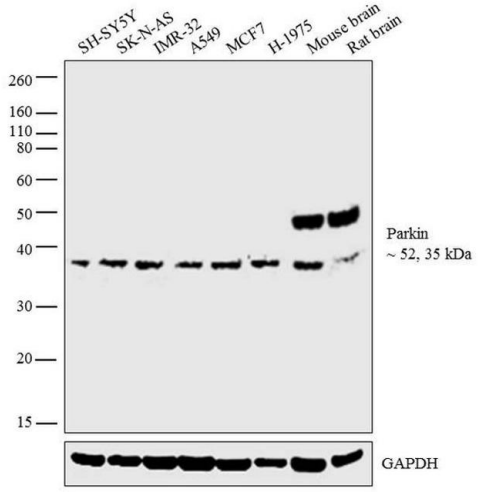
Parkin Monoclonal Antibody (PRK109)

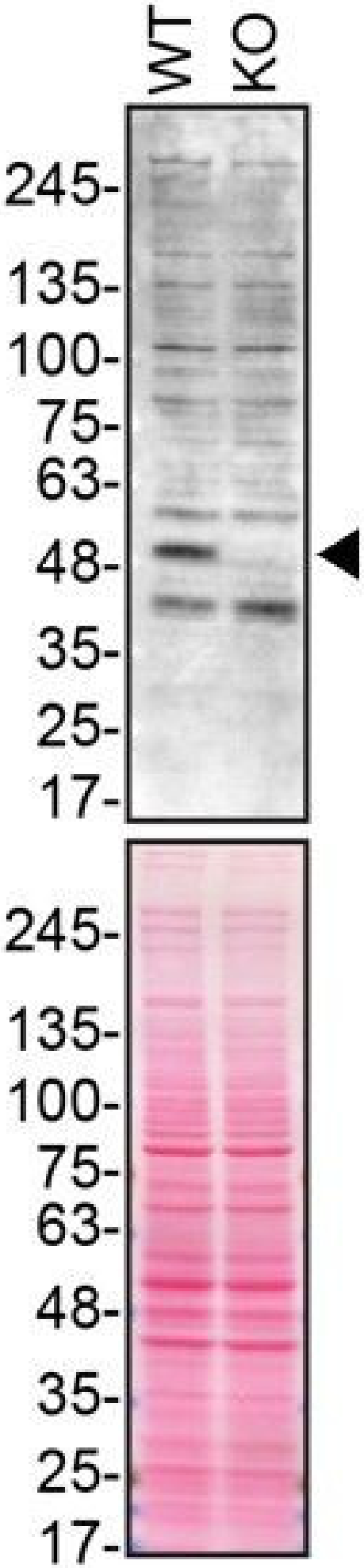
Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Hamster, Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	PRK109
Conjugate	Unconjugated
Immunogen	Full length recombinant human Parkin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533396

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	1 Publication
Immunocytochemistry (ICC/IF)	Assay-dependent	1 Publication
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	1 Publication

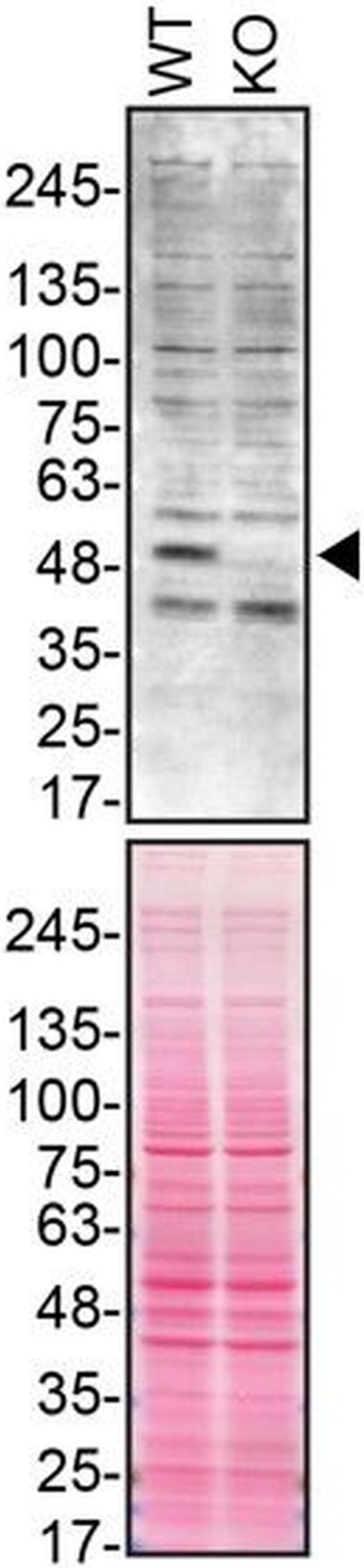
Product Images For Parkin Monoclonal Antibody (PRK109)



Parkin Antibody (39-0900) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of SH-SY5Y (Lane 1), SK-N-AS (Lane 2), IMR-32 (Lane 3), A549 (Lane 4), MCF7 (Lane 5), H-1975 (Lane 6), tissue extracts (30 µg lysate) of Mouse brain (Lane 7) and Rat brain (Lane 8). The blot was probed with Anti-Parkin Monoclonal Antibody (Product # 39-0900, 1:500 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/ml, 1:4000 dilution). A 52 kDa band corresponding to Parkin was observed in brain tissues and its isoform of 31 kDa was observed across the cell lines and tissues tested.



Parkin Antibody (39-0900)
Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Loss of signal was observed for target protein in PRKN knockout (KO) cell line using Anti-Parkin monoclonal antibody (Product # 39-0900). Ponceau stained transfer shown below. Data courtesy of YCharOS Inc., an open science company with the mission of characterizing commercially available antibodies using knockout validation. {KO}



Parkin Antibody (39-0900) in WB

Western blot of Parkin was performed by loading 50 µg of WT (lane 1) and PRKN CRISPR KO (lane 2) SH-SY5Y cell lysates in RIPA buffer onto a 4-15% gradient polyacrylamide gel. Proteins on the blots were visualized with Ponceau staining (below immunoblot). Proteins were transferred to nitrocellulose membrane and blocked in 5% milk for 1 hr. PRKN was detected at approximately 52 kDa (designated by the black arrow) using a PRKN recombinant polyclonal antibody (Product # 39-0900) at a dilution of 1:500 in 5% BSA in TBS with 0.1% Tween 20 (TBST) overnight at 4°C. The peroxidase-conjugated secondary antibody (Product # 62-6520) was diluted to 0.2 µg/mL in TBST with 5% milk for 1 hr. Chemiluminescent detection was performed using Pierce ECL Western Blotting Substrate (Product # 32106). Data courtesy of YCharOS Inc., an open science company with the mission of characterizing commercially available antibodies using knockout validation.

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3 References

Western Blot (1)

The Journal of biological chemistry

Novel monoclonal antibodies demonstrate biochemical variation of brain parkin with age.

Authors: Pawlyk AC,Giasson BI,Sampathu DM,Perez FA,Lim KL,Dawson VL,Dawson TM,Palmiter RD,Trojanowski JQ, Lee VM

Year
2003

Species
Human
Mouse
Hamster

Immunocytochemistry (1)

The Journal of biological chemistry

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Authors: Pawlyk AC,Giasson BI,Sampathu DM,Perez FA,Lim KL,Dawson VL,Dawson TM,Palmiter RD,Trojanowski JQ, Lee VM

Year
2003

Species
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Immunoprecipitation (1)

The Journal of biological chemistry

Novel monoclonal antibodies demonstrate biochemical variation of brain parkin with age.

Authors: Pawlyk AC,Giasson BI,Sampathu DM,Perez FA,Lim KL,Dawson VL,Dawson TM,Palmiter RD,Trojanowski JQ, Lee VM

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