Parkin Recombinant Rabbit Monoclonal Antibody (21H24L9)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse, Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	21H24L9
Conjugate	Unconjugated
Immunogen	Protein corresponding to human Parkin [aa1-aa465]
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2724937

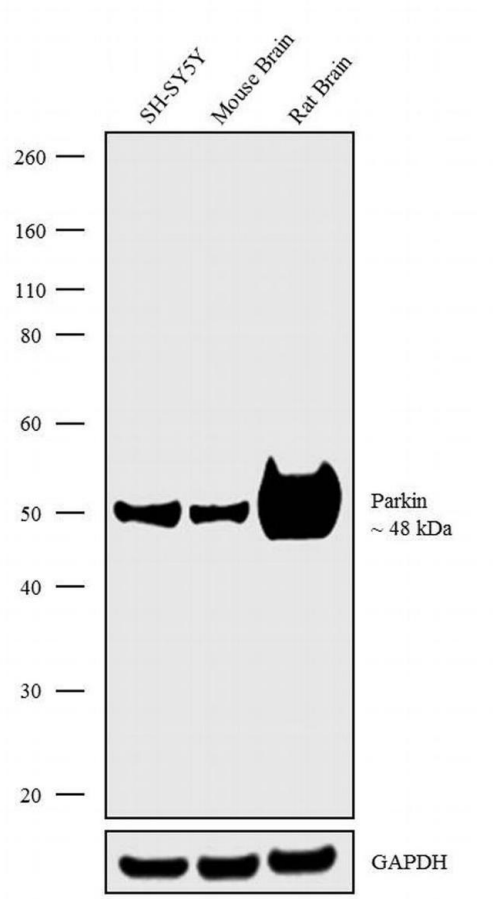
Applications	Tested Dilution	Publications
Western Blot (WB)	2.5 µg/mL	3 Publications
Immunoprecipitation (IP)	Assay-dependent	-

Product Specific Information

This antibody is predicted to react with Monkey, Rat, Pig, Mouse.

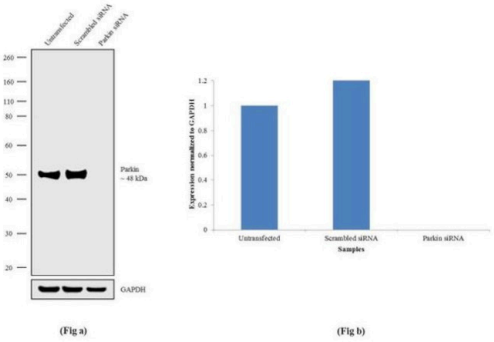
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For Parkin Recombinant Rabbit Monoclonal Antibody (21H24L9)



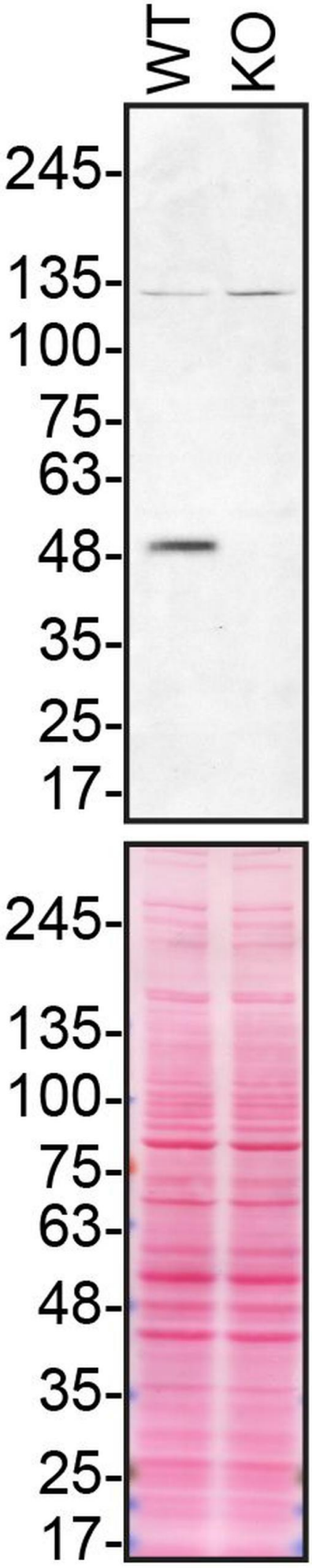
Parkin Antibody (702785) in WB

Western blot analysis was performed on Whole cell extracts (60 µg lysate) of SH-SY5Y (Lane 1) and tissue extracts of Mouse Brain (Lane 2) and Rat Brain (Lane 3). The blots were probed with Anti-Parkin Recombinant Rabbit Monoclonal Antibody (Product # 702785, 2.5 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 48 kDa band corresponding to Parkin was observed across the cell line and tissues tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®4-12% Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



Parkin Antibody (702785)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. SH-SY5Y cells were transfected with Parkin siRNA and decrease in signal intensity was observed in Western blot application using Anti-Parkin Recombinant Rabbit Monoclonal Antibody (Product # 702785). {KD}



Parkin Antibody (702785) 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 using a PRKN recombinant monoclonal antibody (Product # 702785) at a dilution of 1: 200 in 5% BSA in TBS with 0.1% Tween 20 (TBST) overnight at 4°C. The peroxidase-conjugated secondary antibody (Product # 65-6120) 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 (3)

Antioxidants (Basel, Switzerland)

Mitochondrial-Targeted Therapies Require Mitophagy to Prevent Oxidative Stress Induced by SOD2 Inactivation in Hypertrophied Cardiomyocytes.

"Published figure using Parkin recombinant monoclonal antibody (Product # 702785) in Western Blot"

Authors: Peugnet V,Chwastyniak M,Mulder P,Lancel S,Bultot L,Fourny N,Renguet E,Bugger H,Beseme O,Loyens A, Heyse W,Richard V,Amouyel P,Bertrand L,Pinet F,Dubois-Deruy E

Year
2022

Cell cycle (Georgetown, Tex.)

LncRNA SNHG17 knockdown promotes Parkin-dependent mitophagy and reduces apoptosis of podocytes through Mst1.

"702785 was used in Western Blot to conclude that lncRNA SNHG17 knockdown promotes Parkin-dependent mitophagy and reduces apoptosis of podocytes through regulating the degradation of Mst1."

Authors: Guo F,Wang W,Song Y,Wu L,Wang J,Zhao Y,Ma X,Ji H,Liu Y,Li Z,Qin G

Year
2020

Species
Mouse

Dilution
1:500

View more WB references on thermofisher.com