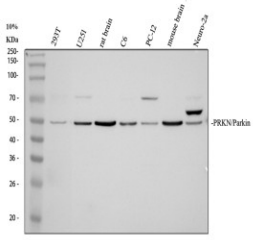
Parkin Antibody / PARK2 (R31720)

Catalog No.	Formulation	Size
R31720	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
Gene ID	5071
Applications	Western blot: 0.5-1ug/ml
Limitations	This Parkin antibody is available for research use only.



Parkin Antibody Human, Mouse and Rat Neural Cell and Brain WB. Western blot analysis was performed with Parkin Antibody on human 293T and U251 cell lysates (lanes 1-2), rat brain, C6 and PC-12 lysates (lanes 3-5), and mouse brain and Neuro-2a lysates (lanes 6-7). Samples were separated by 10% SDS-PAGE under reducing conditions, and the antibody was used at 0.5 ug/ml overnight at 4oC. A prominent band is detected at approximately 52 kDa, consistent with the expected molecular weight of Parkin. This Parkin Antibody demonstrates detection of Parkin across human, mouse and rat samples, including multiple neural cell and brain tissue lysates.

Description

Parkin is a RING domain-containing E3 ubiquitin ligase involved in proteasome-dependent degradation of proteins. It is mapped to 6q26. This gene is important for mitochondrial quality control by lysosome-dependent degradation of damaged mitochondria through autophagy, or mitophagy. Parkin is expressed in neuronal processes and cell bodies of neurons, but not glial cells, in the midbrain, basal ganglia, cerebral cortex, and cerebellum. Parkin assimilated with actin filaments, suggesting that it is a cytoskeletal-associated protein. Parkin is identified as a transcriptional repressor of p53 independent of its ubiquitin ligase function. It also has been found that parkin was associated physically with

mitochondrial DNA (mtDNA) in proliferating as well as in differentiated SH-SY5Y neuroblastoma cells.

Researchers studying PRKN expression and Parkin function can explore our Parkin Antibody page for additional reagents targeting this E3 ubiquitin ligase and its roles in mitophagy, mitochondrial quality control and neurodegeneration.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Parkin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 23-416) was used as the immunogen for this Parkin antibody.

Storage

After reconstitution, the Parkin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

PARK2 antibody, Parkinson Disease Protein 2 antibody, Parkin antibody, PRKN antibody, Parkinson Disease 2 antibody, E3 Ubiquitin Ligase Parkin antibody

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