Product datasheet

Anti-PARK2/Parkin/PRKN Antibody

Catalog Number: *PB9307*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-PARK2/Parkin/PRKN Antibody
Gene Name	PRKN
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Parkin recombinant protein (Position: I23-K416). Human Parkin shares 82% and 84% amino acid (aa) sequence identity with mouse and rat Parkin, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	52,66 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

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.

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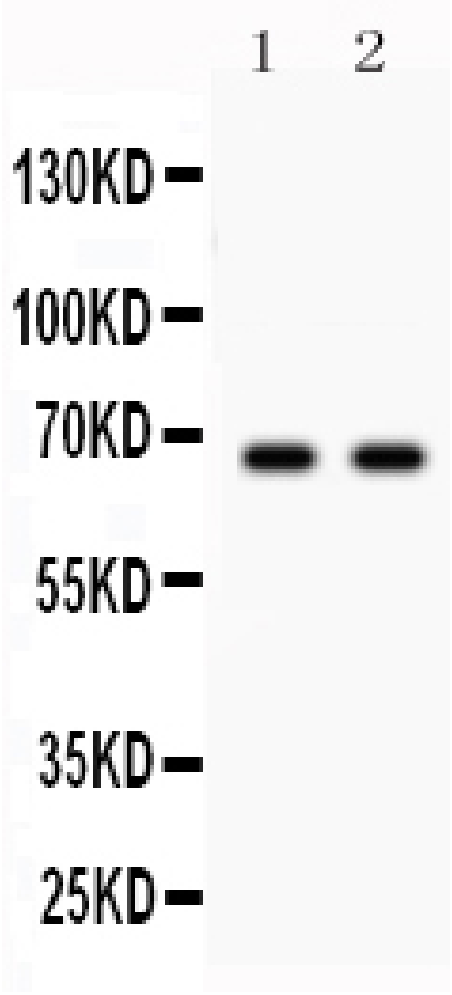
Reference

Anti-PARK2/Parkin/PRKN Antibody被引用在7文献中。

Selected Validation Data



Western blot analysis of PARK2/Parkin/PRKN using anti-PARK2/Parkin/PRKN antibody (PB9307). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: U87 whole cell lysates,
Lane 2: Mouse Brain tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PARK2/Parkin/PRKN antigen affinity purified polyclonal antibody (PB9307) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PARK2/Parkin/PRKN at approximately 52,66 kDa. The expected band size for PARK2/Parkin/PRKN is at 52 kDa.

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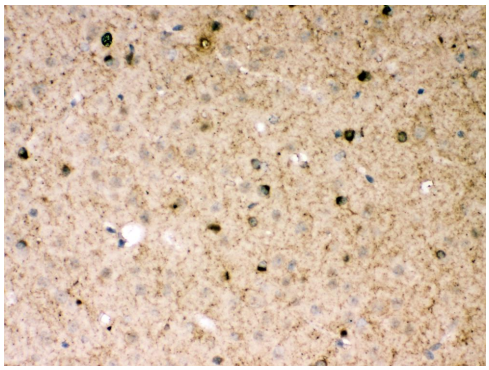
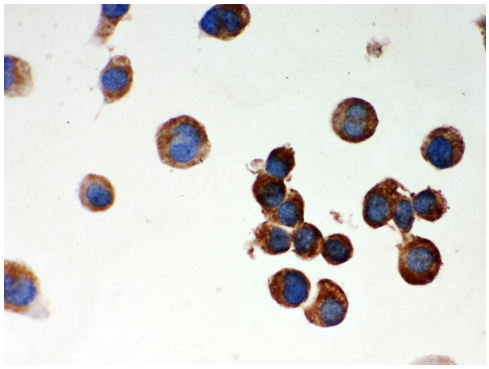


IHC analysis of PARK2/Parkin/PRKN using anti-PARK2/Parkin/PRKN antibody (PB9307).
PARK2/Parkin/PRKN was detected in a paraffin-embedded section of mouse brain tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-PARK2/Parkin/PRKN Antibody (PB9307) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



IHC analysis of Parkin using anti-Parkin antibody (PB9307).
Parkin was detected in immunocytochemical section of NEURO-2α Cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1µg/ml rabbit anti-Parkin Antibody (PB9307) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.