

Anti-Parkin/PRKN Antibody Picoband™

Catalog Number: PB9307

About PRKN

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.

Overview

Product Name	Anti-Parkin/PRKN Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Parkin/PRKN Antibody Picoband™ catalog # PB9307. Tested in IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O60260

Technical Details

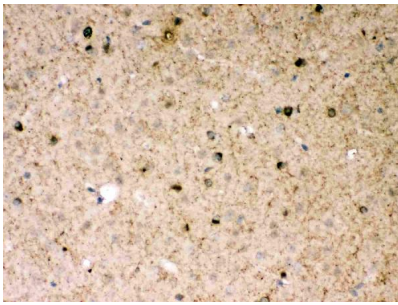
Immunogen	E.coli-derived human Parkin recombinant protein (Position: I23-K416). Human Parkin shares 82% and 84% amino acid (aa) sequence identity with mouse and rat Parkin, respectively.
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunocytochemistry , 0.5-1ug/ml, Mouse, - Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

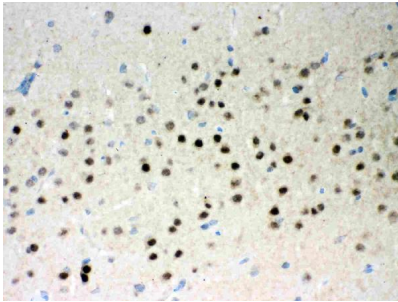
Anti-Parkin/PRKN Antibody Picoband™ (PB9307) Images



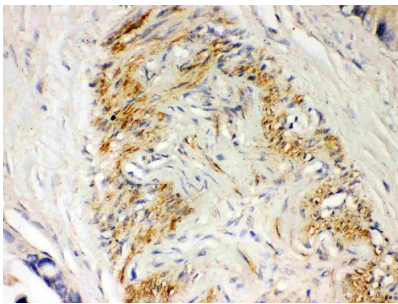
Anti-Parkin Picoband antibody, PB9307, Western blotting
All lanes: Anti Parkin (PB9307) at 0.5ug/ml
Lane 1: U87 Whole Cell Lysate at 40ug
Lane 2: Mouse Brain Tissue Lysate at 50ug
Predicted bind size: 66KD
Observed bind size: 66KD



Anti-Parkin Picoband antibody, PB9307, IHC(P)
IHC(P): Mouse Brain Tissue



Anti-Parkin Picoband antibody, PB9307, IHC(P)
IHC(P): Rat Brain Tissue



Anti-Parkin Picoband antibody, PB9307, IHC(P)
IHC(P): Human Intestinal Cancer Tissue

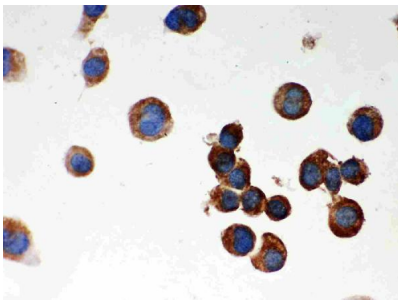


Figure 5. IHC analysis of Parkin using anti-Parkin antibody (PB9307).
Parkin was detected in immunocytochemical section of NEURO-2alpha Cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1ug/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 Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

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