

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 associated 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. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg Na ₃ N. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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

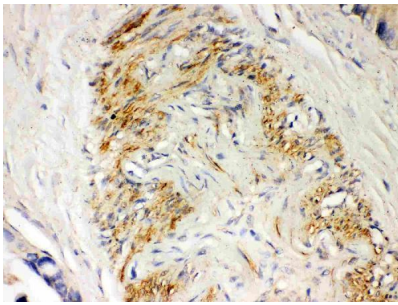
Immunogen	E.coli-derived human Parkin recombinant protein (Position: I23-K416). Human Parkin shares 82% and 84% amino acid (aa) sequence identity with mouse and rat Parkin, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	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	Immunocytochemistry , 0.5-1ug/ml, Mouse, - Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

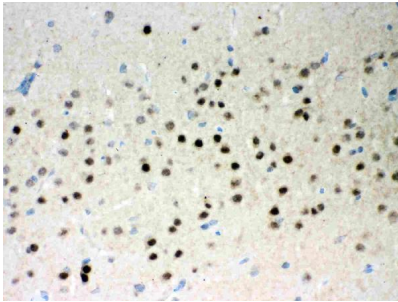
Anti-Parkin/PRKN Antibody Picoband® (PB9307) Images



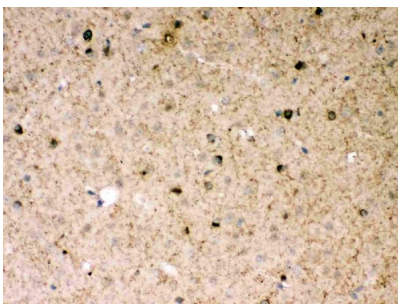
Anti-Parkin Picoband antibody, PB9307, Western blotting
All lanes: Anti Parkin (PB9307) at 0.5ug/ml
Lane 1: U87 Whole Cell Lysate at 40ug
Lane 2: Mouse Brain Tissue Lysate at 50ug
Predicted bind size: 66KD
Observed bind size: 66KD



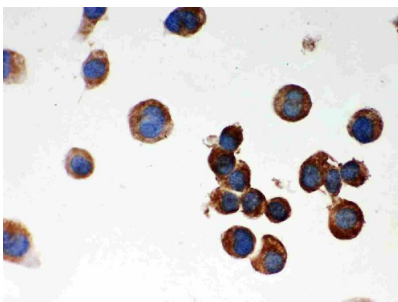
Anti-Parkin Picoband antibody, PB9307, IHC(P)
IHC(P): Human Intestinal Cancer Tissue



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



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



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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Anti-Parkin/PRKN Antibody

For Research Use Only. Not for use in diagnostic procedures.