BOSTER
antibody and ELISA experts

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Anti-PARK7/DJ1 Antibody Picoband™

Catalog Number: PB9308

About PARK7

Parkinson disease (autosomal recessive, early onset) 7, also known as DJ1, is a protein which in humans is encoded by the PARK7 gene. PARK7 belongs to the peptidase C56 family of proteins. PARK7 is mapped to chromosome 1p36. It acts as a positive regulator of androgen receptor-dependent transcription. It is also involved in tumorigenesis and in maintaining mitochondrial homeostasis. This gene may also function as a redox-sensitive chaperone, as a sensor foroxidative stress, and it apparently protects neurons against oxidative stress and cell death. It has been found that PARK7 mutations that impair transcriptional coactivator function can render dopaminergic neurons vulnerable to apoptosis and may contribute to the pathogenesis of Parkinson disease.

Overview

Product Name	Anti-PARK7/DJ1 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PARK7/DJ1 Antibody Picoband™ catalog # PB9308. 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	Q99497

Technical Details

Immunogen	E.coli-derived human PARK7 recombinant protein (Position: A2-D189). Human PARK7 shares 91% amino acid (aa) sequence identity with both mouse and rat PARK7.
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

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

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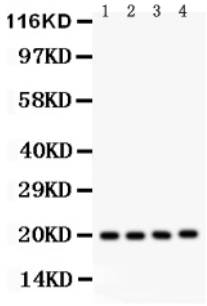
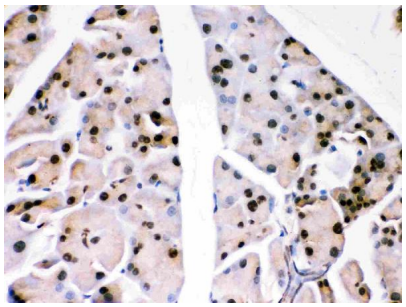
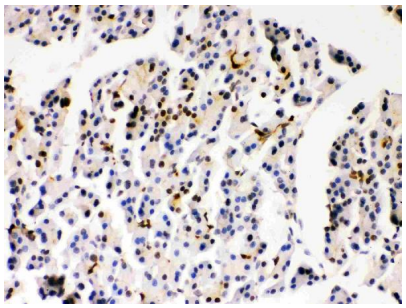
Anti-PARK7/DJ1 Antibody Picoband™ (PB9308) Images



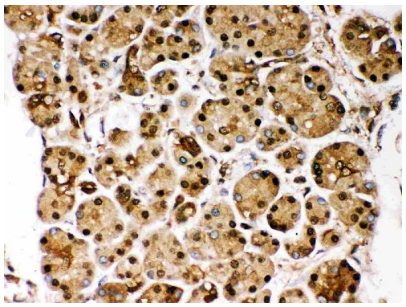
Anti-PARK7 Picoband antibody, PB9308, Western blotting
All lanes: Anti PARK7 (PB9308) at 0.5ug/ml
Lane 1: PANC Whole Cell Lysate at 40ug
Lane 2: U20S Whole Cell Lysate at 40ug
Lane 3: SMMC Whole Cell Lysate at 40ug
Lane 4: HELA Whole Cell Lysate at 40ug
Predicted bind size: 20KD
Observed bind size: 20KD



Anti-PARK7 Picoband antibody, PB9308, IHC(P)
IHC(P): Mouse Pancreas Tissue



Anti-PARK7 Picoband antibody, PB9308, IHC(P)
IHC(P): Rat Pancreas Tissue



Anti-PARK7 Picoband antibody, PB9308, IHC(P)
IHC(P): Human Pancreatic Cancer Tissue

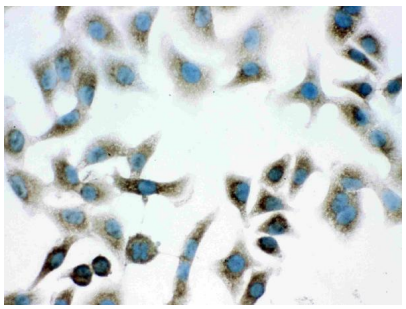


Figure 5. IHC analysis of PARK7 using anti-PARK7 antibody (PB9308).
PARK7 was detected in immunocytochemical section of A549 Cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1ug/ml rabbit anti-PARK7 Antibody (PB9308) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at

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37°C. The section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.