

## Anti-PINK1 Antibody

Catalog Number: A00201

### About PINK1

The PTEN-induced putative kinase 1 (PINK1) is a serine/threonine protein kinase that localizes to mitochondria and is thought to protect cells from stress-induced mitochondrial dysfunction (reviewed in 1). PINK1 recruits the E3 ubiquitin ligase Parkin to mitochondria to initiate mitophagy, an autophagic process that clears damaged mitochondria within a cell (2). PINK1 is cleaved by the mitochondrial protease PARL (3). Mutations in this gene cause one form of autosomal recessive early-onset Parkinson disease (4).

### Overview

Product Name	Anti-PINK1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PINK1 Antibody (Catalog # A00201). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal Clone: SK7
Formulation	PINK1 antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	PINK1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	Q9BXM7

### Technical Details

Immunogen	PINK1 antibody was raised against a 16 amino acid peptide near the amino terminus of human PINK1. The immunogen is located within amino acids 120 - 170 of PINK1.
Predicted Reactive Species	Bovine, Pig, Sheep
Cross Reactivity	PINK1 antibody is human, mouse and rat reactive. At least two isoforms are known to exist; this antibody will only detect the longer isoform. PINK1 antibody will detect the cleaved and uncleaved form of PINK1.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	PINK1 antibody is affinity chromatography purified via peptide column.

#### 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.

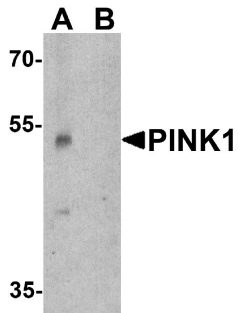
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

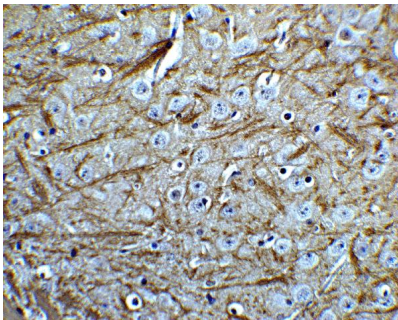
PINK1 antibody can be used for detection of PINK1 by Western blot at 1 - 2 ug/ml. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in human, mouse, and rat samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

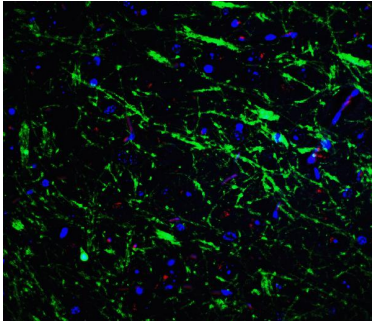
## Anti-PINK1 Antibody (A00201) Images



Western blot analysis of PINK1 in A431 cell lysate with PINK1 antibody at 1 ug/ml in (A) the absence and (B) the presence of blocking peptide.

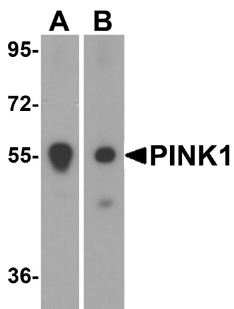


Immunohistochemistry of PINK1 in mouse brain tissue with PINK1 Antibody at 5 ug/mL.



Immunofluorescence of PINK1 in mouse brain tissue with PINK1 Antibody at 20 ug/mL.

Green: PINK1 antibody (A00201)  
Red: Phalloidin staining  
Blue: DAPI staining



Western blot analysis of PINK1 in (A) mouse and (B) rat spleen tissue lysate with PINK1 antibody at 1 ug/mL.

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