abcam

Product datasheet

Anti-PINK1 antibody [N4/15] ab186303

14 References 2 Images

Overview

Product name	Anti-PINK1 antibody [N4/15]
Description	Mouse monoclonal [N4/15] to PINK1
Host species	Mouse
Specificity	>30% identity with DMPK.
Tested applications	**Suitable for:** WB, ICC
Species reactivity	**Reacts with:** Rat, Human
Immunogen	Recombinant fragment corresponding to Human PINK1 aa 100-500. NP_115785.1. Database link: **Q9BXM7** Run BLAST with Run BLAST with
Positive control	WB: Rat brain lysate. ICC: SK-N-BE cells.
General notes	The clone number has been updated from S4-15 to N4/15, both clone numbers name the same antibody clone. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol, PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	N4/15

Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab186303 in the following tested applications.

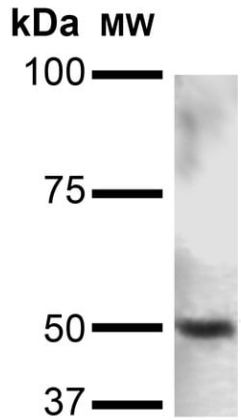
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 63 kDa.
ICC		1/100.

Target

Function	Protects against mitochondrial dysfunction during cellular stress, potentially by phosphorylating mitochondrial proteins. Involved in the clearance of damaged mitochondria via selective autophagy (mitophagy). It is necessary for PARK2 recruitement to dysfunctional mitochondria to initiate their degradation.
Tissue specificity	Highly expressed in heart, skeletal muscle and testis, and at lower levels in brain, placenta, liver, kidney, pancreas, prostate, ovary and small intestine. Present in the embryonic testis from an early stage of development.
Involvement in disease	Defects in PINK1 are the cause of Parkinson disease type 6 (PARK6) [MIM:605909]. A neurodegenerative disorder characterized by parkinsonian signs such as rigidity, resting tremor and bradykinesia. A subset of patients manifest additional symptoms including hyperreflexia, autonomic instability, dementia and psychiatric disturbances. Symptoms show diurnal fluctuation and can improve after sleep.
Sequence similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Contains 1 protein kinase domain.
Post-translational modifications	Autophosphorylated.
Cellular localization	Mitochondrion outer membrane. Cytoplasm > cytosol.

Images



Western blot - Anti-PINK1 antibody [N4/15] (ab186303)

Anti-PINK1 antibody [N4/15] (ab186303) at 1/200 dilution + Rat brain lysate at 15 µg

Secondary

Goat Anti-Mouse IgG: HRP at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 63 kDa

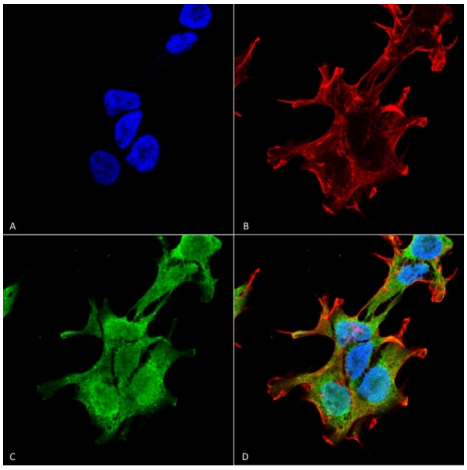
Observed band size: 50 kDa

Exposure time: 6 minutes

Block: 2% BSA and 2% skimmed milk in 1X TBST.

Incubated with primary antibody for 16 hours at 4°C.

Incubated with secondary antibody for 1 hour at RT.



Immunocytochemistry - Anti-PINK1 antibody [N4/15] (ab186303)

Immunocytochemical analysis of SK-N-BE (Human neuroblastoma cell line) cells stained for PINK1 (green) using ab186303 at 1/100 dilution for 60 minutes. Cells were fixed in 4% formaldehyde for 15 minutes at RT. Goat anti-mouse IgG (Alexa Fluor® 488) was used as the secondary antibody at 1/100 dilution. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) ab186303. (D) Composite.

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