abcam

Product datasheet

Anti-PINK1 antibody [MJF-R32-7] ab300623

敲除验证 重组 RabMAb

4 图像

概述

产品名称	Anti-PINK1抗体[MJF-R32-7]
描述	兔单克隆抗体[MJF-R32-7] to PINK1
宿主	Rabbit
特异性	This antibody does not react in: IHC-P with human, mouse and rat; and in immunocytochemistry, flow cytometry and immunoprecipitation with human. This antibody was mapped to AA 188-194 with some cross-reaction to AA 287-301.
经测试应用	**适用于:** WB **不适用于:** Flow Cyt,ICC/IF,IHC-P or IP
种属反应性	**与反应:** Human **不与反应:** Mouse, Rat
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Wild-type HEK-293T treated with carbonyl cyanide 3-chlorophenylhydrazone (CCCP) for 6 hours, whole cell lysate; Untreated PC-3 whole cell lysate; PC-3 treated with CCCP for 6 hours, whole cell lysate.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. This antibody was developed with support from The Michael J. Fox Foundation. THE MICHAEL J. FOX FOUNDATION FOR PARKINSON'S RESEARCH

性能

形式	Liquid

存放说明	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.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	MJF-R32-7
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab300623于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

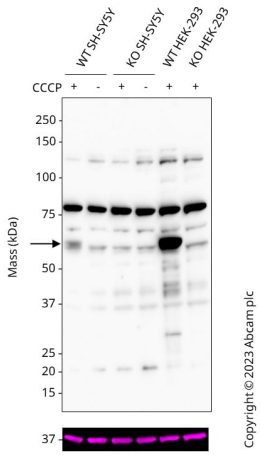
应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 62 kDa (predicted molecular weight: 63 kDa).

应用说明 Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

靶标

功能	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.
组织特异性	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.
疾病相关	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.
序列相似性	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Contains 1 protein kinase domain.
翻译后修饰	Autophosphorylated.
细胞定位	Mitochondrion outer membrane. Cytoplasm > cytosol.

图片



Western blot - Anti-PINK1 antibody [MJF-R32-7] (ab300623)

All lanes : Anti-PINK1 antibody [MJF-R32-7] (ab300623) at 1/1000 dilution

Lane 1 : Wild-type SH-SY5Y treated CCCP, **ab141229** (10 uM, 24 h) cell lysate
Lane 2 : Wild-type SH-SY5Y control CCCP (0 uM, 24 h) cell lysate
Lane 3 : PINK1 knockout SH-SY5Y (**ab280876**) treated CCCP, **ab141229** (10 uM, 24 h) cell lysate
Lane 4 : PINK1 SH-SY5Y (**ab280876**) control CCCP (0 uM, 24 h) cell lysate
Lane 5 : Wild-type HEK-293 Treated CCCP, **ab141229** (10 µM, 24 h) cell lysate
Lane 6 : PINK1 knockout HEK-293 Treated CCCP, **ab141229** (10 µM, 24 h) cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : HRP conjugated Goat anti-Rabbit (H+L) and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

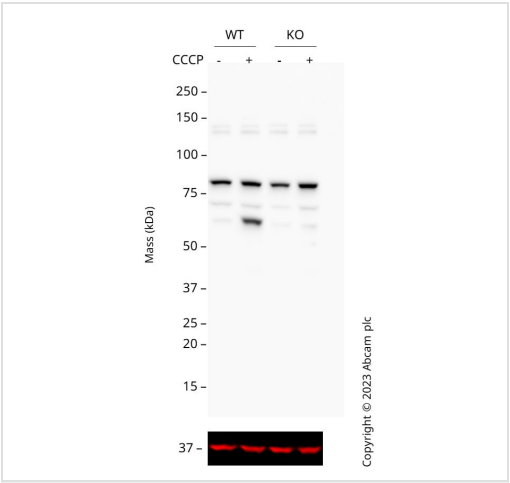
Predicted band size: 63 kDa
Observed band size: 63 kDa

Western blot: Anti-PINK1 antibody [MJF-R32-7] (ab300623) staining at 1/1000 dilution, shown in black; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in magenta.

In Western blot, ab300623 was shown to bind specifically to PINK1. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5% milk in TBS-0.1% Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times before development with a high-sensitivity ECL substrate kit and imaged with 20 minutes exposure time.

Secondary antibodies used were HRP conjugated Goat anti-Rabbit (H+L) and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.

In Western blot, ab300623 was shown to bind specifically to PINK1. A band was observed at 63kDa in wild-type SH-SY5Y treated with CCCP cell lysates with no signal observed at this size in PINK1 knockout cell line (**ab280876**).



Western blot - Anti-PINK1 antibody [MJF-R32-7] (ab300623)

All lanes : Anti-PINK1 antibody [MJF-R32-7] (ab300623) at 1/1000 dilution

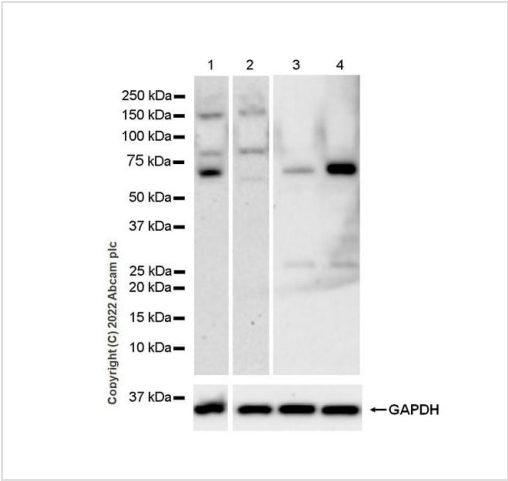
Lane 1 : Wild-type HEK-293 Vehicle Control CCCP, **ab141229** (0 µM, 24 h) cell lysate
Lane 2 : Wild-type HEK-293 Treated CCCP, **ab141229** (10 µM, 24 h) cell lysate
Lane 3 : PINK1 knockout HEK-293 Vehicle Control CCCP, **ab141229** (0 µM, 24 h) cell lysate
Lane 4 : PINK1 knockout HEK-293 Treated CCCP, **ab141229** (10 µM, 24 h) cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 63 kDa

Anti-PINK1 antibody [MJF-R32-7] (ab300623) staining at 1/1000 dilution, shown in black; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. ab300623 was shown to bind specifically to PINK1. A band was observed at 60 kDa in wild-type HEK-293 cell lysates with no signal observed at this size in PINK1 knockout cell line **ab266393** (knockout cell lysate **ab257030**). To generate this image, wild-type and PINK1 knockout HEK-293 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times before development with Optiblot (ECL reagent **ab133456**) and imaged with 4 minutes exposure time. Secondary antibodies used were HRP conjugated Goat anti-Rabbit (H+L) and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-PINK1 antibody [MJF-R32-7] (AB300623)

All lanes : Anti-PINK1 antibody [MJF-R32-7] (ab300623) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T (human embryonic kidney epithelial cell) treated with 30uM carbonyl cyanide 3-chlorophenylhydrazone (CCCP, **ab141229**) for 6 hours, whole cell lysate
Lane 2 : PINK1 knockout HEK-293T treated with 30uM carbonyl cyanide 3-chlorophenylhydrazone (CCCP, **ab141229**) for 6 hours, whole cell lysate
Lane 3 : Untreated PC-3 (human prostate adenocarcinoma epithelial cell), whole cell lysate
Lane 4 : PC-3 treated with 30uM carbonyl cyanide 3-chlorophenylhydrazone (CCCP, **ab141229**) for 6 hours, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

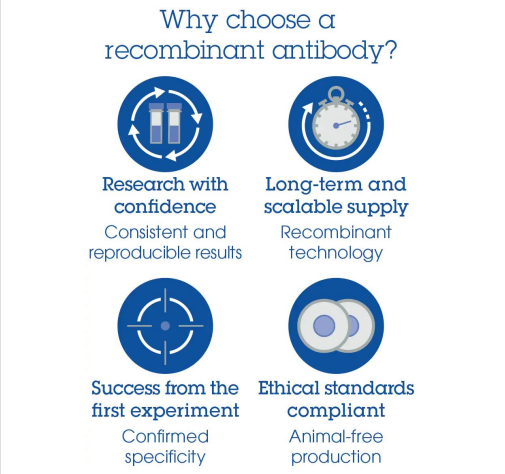
Performed under reducing conditions.

Predicted band size: 63 kDa
Observed band size: 62 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

In Western blot, ab300623 was shown to bind specifically to PINK1. A band was observed at 63 kDa in wild-type HEK-293T (CCCP-treated) cell lysates whereas no signal observed at this size in PINK1 knockout cell line **ab266393** (CCCP-treated).

Exposure times: Lane 1-2: 3 minutes; Lane 3-4: 70 seconds.



Anti-PINK1 antibody [MJF-R32-7] (AB300623)

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