Leader in Biomolecular Solutions for Life Science

[KO Validated] DRP1 Rabbit mAb

Catalog No.: A21968

Recombinant | 21 Publications

www.abclonal.com

Basic Information

Observed MW
78 kDa/82 kDa

Calculated MW
82 kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IF/ICC, IF-P, ELISA

Cross Reactivity
Human, Mouse, Rat, Monkey

Clone No.
ARC54410

Background

This gene encodes a member of the dynamin superfamily of GTPases. The encoded protein mediates mitochondrial and peroxisomal division, and is involved in developmentally regulated apoptosis and programmed necrosis. Dysfunction of this gene is implicated in several neurological disorders, including Alzheimer's disease. Mutations in this gene are associated with the autosomal dominant disorder, encephalopathy, lethal, due to defective mitochondrial and peroxisomal fission (EMPF). Alternative splicing results in multiple transcript variants encoding different isoforms.

Recommended Dilutions

WB 1:3000 - 1:15000

IP
0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

IF/ICC 1:50 - 1:200

IF-P 1:50 - 1:200

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
10059

Swiss-Prot
O00429

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
DLP1; DRP1; DVLP; EMPF; OPA5; EMPF1; DYMPLE; HDYNIV

Contact

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Product Information

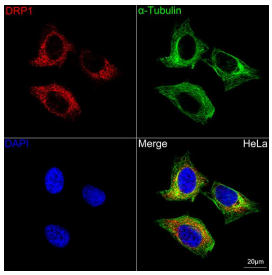
Source
Rabbit

Isotype
IgG

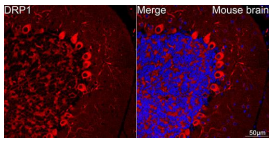
Purity
Affinity purification

Storage
Store at -20℃

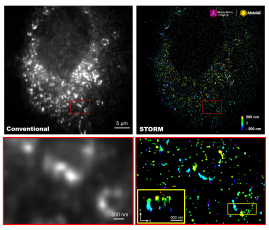
Validation Data



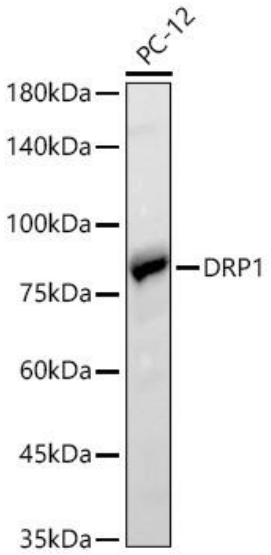
Confocal imaging of HeLa cells using [KO Validated] DRP1 Rabbit mAb (A21968, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



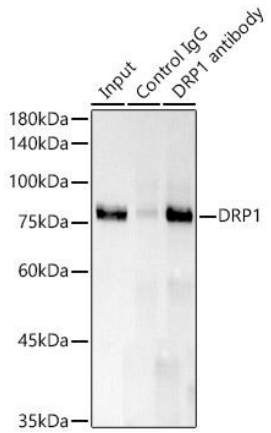
Confocal imaging of paraffin-embedded Mouse brain tissue using [KO Validated] DRP1 Rabbit mAb (A21968, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



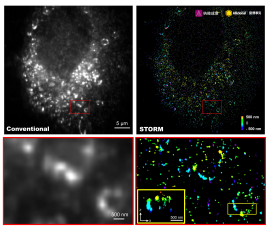
The STORM super-resolution (SR) imaging of COS7 cells using [KO Validated] DRP1 Rabbit mAb (A21968, ABclonal) at dilution of 1:100 with 3% paraformaldehyde (PFA) +0.1% glutaraldehyde (GA) fixation. The immunostaining was performed by Full Automatic Immunofluorescence Workflow System (Workflow Ultra300, Nano-Micro imaging, China). Image was performed with Single-Molecule Localization Super-Resolution Microscopy (STORM Ultra300, Nano-Micro imaging, China). We acknowledge Ningbo Nano-Micro imaging Biotechnology Co., Ltd. in SR image processing and kindly providing this image.



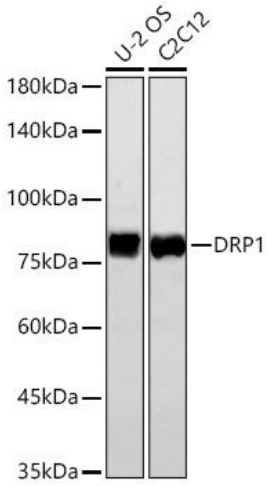
Western blot analysis of lysates from PC-12 cells using [KO Validated] DRP1 Rabbit mAb (A21968) at 1:6000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



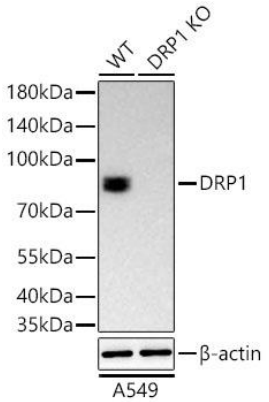
Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg [KO Validated] DRP1 Rabbit mAb (A21968). Western blot was performed from the immunoprecipitate using DRP1 antibody (A21968) at a dilution of 1:5000.



The STORM super-resolution (SR) imaging of COS7 cells using [KO Validated] DRP1 Rabbit mAb (A21968, ABclonal) at dilution of 1:100 with 3% paraformaldehyde (PFA) +0.1% glutaraldehyde (GA) fixation. The immunostaining was performed by Full Automatic Immunofluorescence Workflow System (Workflow Ultra300, Nano-Micro imaging, China). Image was performed with Single-Molecule Localization Super-Resolution Microscopy (STORM Ultra300, Nano-Micro imaging, China). We acknowledge Ningbo Nano-Micro imaging Biotechnology Co., Ltd. (宁波纳微成像生物科技有限公司) in SR image processing and kindly providing this image.



Western blot analysis of various lysates using [KO Validated] DRP1 Rabbit mAb (A21968) at 1:6000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



Western blot analysis of lysates from wild type (WT) and DRP1 knockout (KO) A549 cells using [KO Validated] DRP1 Rabbit mAb (A21968) at 1:7000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.