

# DRP1 Rabbit mAb

Catalog No.: A21968

Recombinant

17 Publications

## Basic Information

### Observed MW

78kDa/82kDa

### Calculated MW

82kDa

### Category

Primary antibody

### Applications

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

### Cross-Reactivity

Human, Mouse, Rat, Monkey

### CloneNo number

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 - 1:6000

**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

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

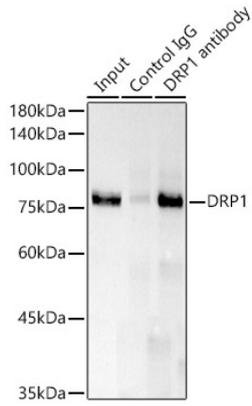
## Contact

☎ | 400-999-6126

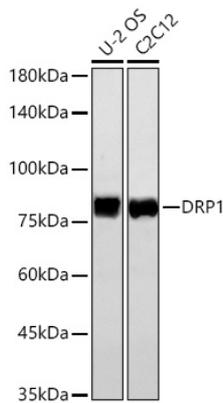
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## Validation Data



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



Western blot analysis of various lysates using DRP1 Rabbit mAb (A21968) at 1:6000 dilution incubated overnight at 4°C.

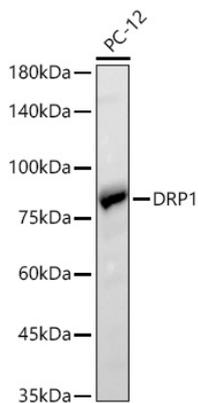
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

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 PC-12 cells using DRP1 Rabbit mAb (A21968) at 1:6000 dilution incubated overnight at 4°C.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

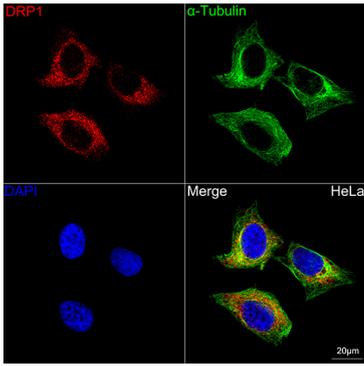
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

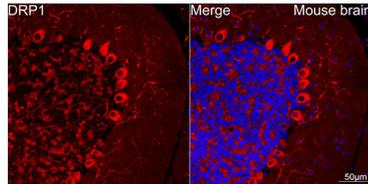
Detection: ECL Basic Kit (RM00020).

Exposure time: 90s.

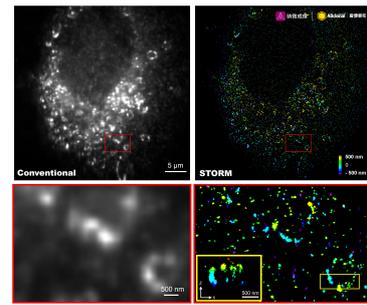
## Validation Data



Confocal imaging of HeLa cells using 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  $\alpha$ -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 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 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. (宁波纳微成像生物技术有限公司) in SR image processing and kindly providing this image.