

A21968

Leader in Biomolecular Solutions for Life Science



# DRP1 Rabbit mAb

Catalog No.: A21968 **Recombinant**

## Basic Information

### Observed MW

78kDa-82kDa

### Calculated MW

82kDa

### Category

SMab Recombinant Monoclonal Antibody

### Applications

WB,IF/ICC,IP,ELISA

### Cross-Reactivity

Human,Mouse,Rat

### 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** 1:500 - 1:1000

**IF/ICC** 1:50 - 1:200

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

## Immunogen Information

### Gene ID

10059

### Swiss Prot

O00429

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 561-670 of human DRP1 (NP\_036192.2).

### Synonyms

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

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

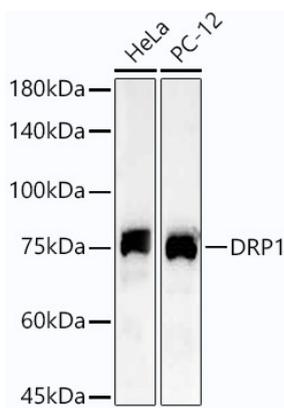
Affinity purification

### Storage

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

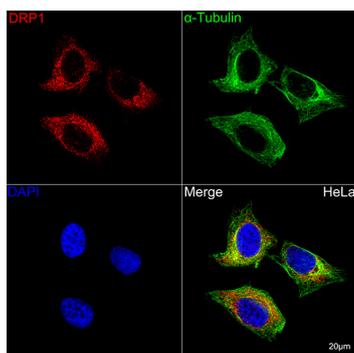
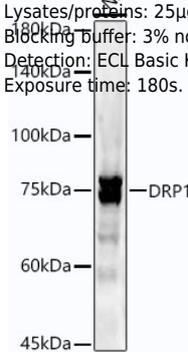
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

## Validation Data

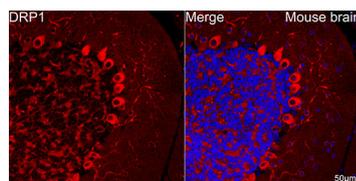


Western blot analysis of various lysates using DRP1 Rabbit mAb (A21968) at 1:1000 dilution.  
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 30s.

Western blot analysis of lysates from NIH/3T3 cells, using DRP1 Rabbit mAb (A21968) at 1:1000 dilution.  
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 180s.



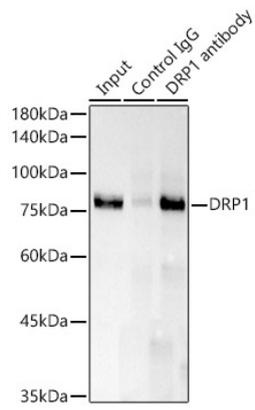
Confocal imaging of HeLa cells using DRP1 Rabbit mAb (A21968, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 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.

## Validation Data

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