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Phospho-DRP1-S616 Rabbit mAb

Catalog No.: AP1573 Recombinant

Basic Information

Observed MW
78-82kDa

Calculated MW
82kDa

Category
Primary antibody

Applications
WB,IP,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC74413

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	1:1000 - 1:10000
IP	0.5μg-4μg antibody for 500μg-700μg extracts of whole cells
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

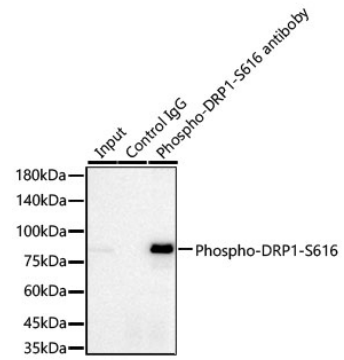
Source
Rabbit

Isotype
IgG

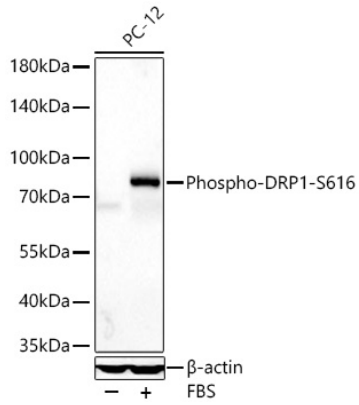
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

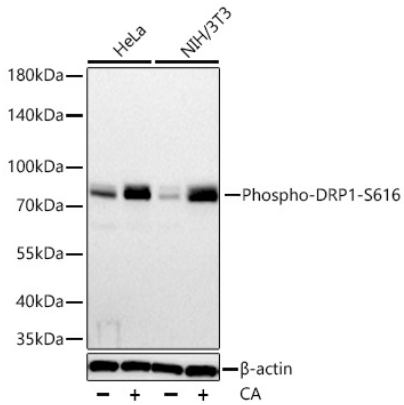
Validation Data



Immunoprecipitation of Phospho-DRP1-S616 from 600 µg extracts of HeLa cells treated with Calyculin A (100 nM) at 37℃ for 30 minutes after serum-starvation overnight was performed using 1 µg of Phospho-DRP1-S616 Rabbit mAb (AP1573). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-DRP1-S616 Rabbit mAb (AP1573) at a dilution of 1:5000.



Western blot analysis of lysates from PC-12 cells using Phospho-DRP1-S616 Rabbit mAb (AP1573) at 1:1000 dilution incubated at room temperature for 1.5 hours. PC-12 cells were treated with 10% FBS at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



Western blot analysis of various lysates using Phospho-DRP1-S616 Rabbit mAb (AP1573) at 1:5000 dilution incubated overnight at 4℃. HeLa and NIH/3T3 cells were treated with Calyculin A (100 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.