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OPA1 Rabbit mAb

Catalog No.: A28496 Recombinant

Basic Information

Observed MW
80-100 kDa

Calculated MW
108-118 kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC77102

Background

The protein encoded by this gene is a nuclear-encoded mitochondrial protein with similarity to dynamin-related GTPases. The encoded protein localizes to the inner mitochondrial membrane and helps regulate mitochondrial stability and energy output. This protein also sequesters cytochrome c. Mutations in this gene have been associated with optic atrophy type 1, which is a dominantly inherited optic neuropathy resulting in progressive loss of visual acuity, leading in many cases to legal blindness.

Recommended Dilutions

WB	1:6000 - 1:20000
IP	0.5 μg-4 μg antibody for 200 μg-400 μg extracts of whole cells
IF/ICC	1:200 - 1:2000
IF-P	1:200 - 1:2000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
4976

Swiss Prot
O60313

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
NPG; NTG; MGM1; BERHS; largeG; MTDPS14

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.

Contact

400-999-6126

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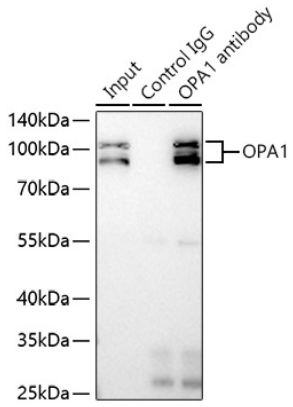
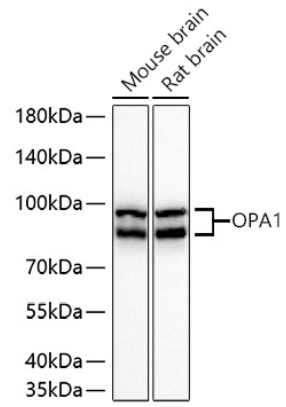
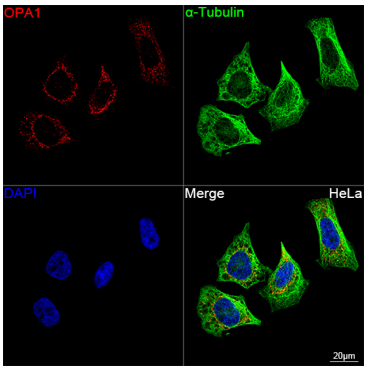
Validation Data



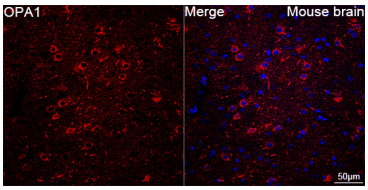
Immunoprecipitation of OPA1 from 200 µg extracts of HeLa cells was performed using 0.5 µg of OPA1 Rabbit mAb(A28496). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using OPA1 Rabbit mAb(A28496) at a dilution of 1:6000.



Western blot analysis of various lysates using OPA1 Rabbit mAb (A28496) at 1:10000 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.



Confocal imaging of HeLa cells using OPA1 Rabbit mAb (A28496, dilution 1:200) followed by a further incubation with Cy3-conjugated 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 using OPA1 Rabbit mAb (A28496, dilution 1:200) followed by a further incubation with Cy3-conjugated 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.