

For Research Use Only

OPA1 Polyclonal antibody

Catalog Number: 32465-1-AP



Basic Information

Catalog Number:

32465-1-AP

Size:

150ul , Concentration: 450 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG38295

GenBank Accession Number:

BC075805

GeneID (NCBI):

4976

UNIPROT ID:

O60313

Full Name:

optic atrophy 1 (autosomal dominant)

Calculated MW:

960 aa, 112 kDa

Observed MW:

80-100 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : A431 cells, HeLa cells, HepG2 cells, mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

Background Information

OPA1 is a nuclear-encoded mitochondrial protein with similarity to dynamin-related GTPases. OPA1 localizes to the inner mitochondrial membrane and helps regulate mitochondrial stability and energy output. This protein also sequesters cytochrome c. OPA1 is associated with the inner membrane and protects cells from apoptosis by regulating inner membrane dynamics. Mutation of OPA1 causes the disease dominant optic atrophy, a degeneration of the retinal ganglion cells. OPA1 undergoes complex posttranscriptional regulation and posttranslational proteolysis. OPA1 is regulated by proteolytic cleavage, which degrades long OPA1 isoforms into short isoforms.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

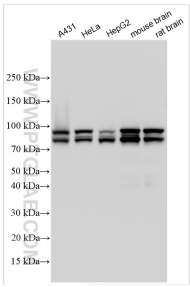
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

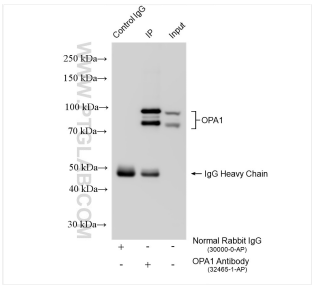
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 32465-1-AP (OPA1 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



IP result of anti-OPA1 (IP:32465-1-AP, 4ug; Detection:32465-1-AP 1:40000) with mouse brain tissue lysate 1840 ug.