

For Research Use Only

OPA1 Polyclonal antibody

Catalog Number: 32465-1-AP



Basic Information

Catalog Number: 32465-1-AP	GenBank Accession Number: BC075805	Purification Method: Antigen affinity Purification
Size: 450 ug/ml	GeneID (NCBI): 4976	Recommended Dilutions: WB 1:5000-1:50000
Source: Rabbit	UNIPROT ID: O60313	
Isotype: IgG	Full Name: optic atrophy 1 (autosomal dominant)	
Immunogen Catalog Number: AG38295	Calculated MW: 960 aa, 112 kDa	
	Observed MW: 80-100 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : A431 cells, HeLa cells, HepG2 cells, mouse brain tissue, rat brain tissue
Species Specificity: human, mouse, rat	

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

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

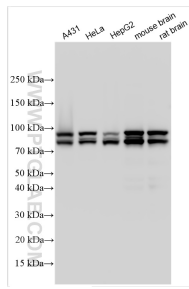
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Selected Validation Data



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.