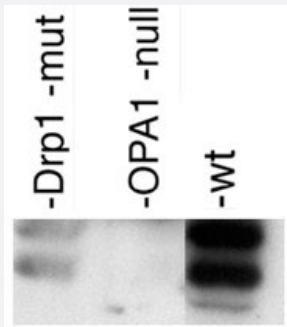


OPA1 polyclonal antibody

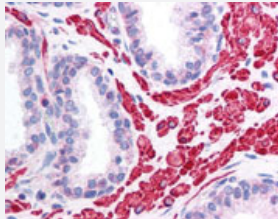
Catalog # PAB12083 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of OPA1 in post-nuclear extracts of mouse embryonic fibroblasts with OPA1 polyclonal antibody (Cat # PAB12083).



Immunohistochemistry

Immunohistochemical staining of OPA1 on prostatic smooth muscle and glandular epithelium with OPA1 polyclonal antibody (Cat # PAB12083).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of OPA1.
Immunogen	A synthetic peptide corresponding to amino acids 500-600 of human OPA1.
Host	Rabbit
Reactivity	Chicken, Human, Mouse, Primates, Rat, Zebra fish
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	Western Blot (2 ug/mL) Immunohistochemistry (2.5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris-glycine, 150 mM NaCl (0.05% sodium azide)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of OPA1 in post-nuclear extracts of mouse embryonic fibroblasts with OPA1 polyclonal antibody (Cat # PAB12083).

- Immunohistochemistry

Immunohistochemical staining of OPA1 on prostatic smooth muscle and glandular epithelium with OPA1 polyclonal antibody (Cat # PAB12083).

Gene Info — OPA1

Entrez GeneID	4976
Protein Accession#	O60313
Gene Name	OPA1
Gene Alias	FLJ12460, KIAA0567, MGM1, NPG, NTG, largeG
Gene Description	optic atrophy 1 (autosomal dominant)
Omim ID	125250 165500 605290 606657
Gene Ontology	Hyperlink
Gene Summary	This gene product is a nuclear-encoded mitochondrial protein with similarity to dynamin-related GTPases. It is a component of the mitochondrial network. 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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000195065 mitochondrial dynamin-like GTPase optic atrophy 1

Publication Reference

- [Lipids activate skeletal muscle mitochondrial fission and quality control networks to induce insulin resistance in humans.](#)

Christopher L Axelrod, Ciaran E Fealy, Melissa L Erickson, Gangarao Davuluri, Hisashi Fujioka, Wagner S Dantas, Emily Huang, Kathryn Pergola, Jacob T Mey, William T King, Anny Mulya, Daniel Hsia, Bartolome Burguera, Bernard Tandler, Charles L Hoppel, John P Kirwan.

Metabolism: Clinical and Experimental 2021 Jun; 121:154803.

Application: WB-Ti, Human, Human skeletal muscle specimens

- [Exercise Training Remodels Human Skeletal Muscle Mitochondrial Fission and Fusion Machinery Towards a Pro-Elongation Phenotype.](#)

Axelrod CL, Fealy CE, Mulya A, Kirwan JP.

Acta Physiologica 2018 Nov; e13216.

Application: WB-Ti, Human, Skeletal muscle

- [Effect of Roux-en-Y gastric bypass on liver mitochondrial dynamics in a rat model of obesity.](#)

Sacks J, Mulya A, Fealy CE, Huang H, Mosinski JD, Pagadala MR, Shimizu H, Batayyah E, Schauer PR, Brethauer SA, Kirwan JP.

Physiological Reports 2018 Apr; 6:1.

Application: WB-Ce, Rat, Liver homogenates

Disease

- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Leber hereditary optic neuropathy](#)
- [Low Tension Glaucoma](#)
- [Ocular Hypertension](#)
- [Optic Atrophies](#)
- [Optic Atrophy](#)