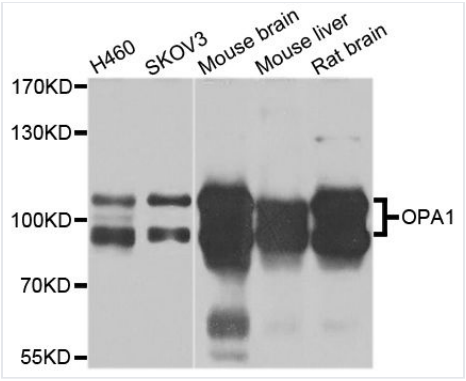
OPA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OPA1, Polyclonal Antibody
Full Product Name	OPA1 Polyclonal Antibody
Product Gene Name	anti-OPA1 antibody
Product Synonym Names	BERHS; MGM1; MTDPS14; NPG; NTG; largeG
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	112kDa
OMIM	AB011139 mRNA
3D Structure	ModBase 3D Structure for O60313
Immunogen	Recombinant protein of human OPA1
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Product Categories/Family for anti-OPA1 antibody	Primary antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-OPA1 antibody	Western Blot (WB)
Application Notes for anti-OPA1 antibody	WB: 1:500 - 1:2000
Related Product Information for anti-OPA1 antibody	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.
Other Notes	Small volumes of anti-OPA1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for OPA1 purchase	MBS9132826 is an antibody targeting OPA1. Also known as OPA1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-OPA1 antibody
Western blot analysis of extracts of various cell lines, using OPA1 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 10s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OPA1. It may not necessarily be applicable to this product.

NCBI GI #	215274226
NCBI GeneID	4976
NCBI Accession #	O60313.3
UniProt Primary Accession #	O60313
UniProt Secondary Accession #	D3DNW4
UniProt Related Accession #	O60313
NCBI Official Full Name	Dynamin-like 120 kDa protein, mitochondrial
NCBI Official Synonym Full Names	OPA1, mitochondrial dynamin like GTPase
NCBI Official Symbol	OPA1
NCBI Official Synonym Symbols	NPG; NTG; MGM1; BERHS; largeG; MTDPS14
UniProt Protein Name	Dynamin-like 120 kDa protein, mitochondrial
UniProt Synonym Protein Names	Optic atrophy protein 1
Protein Family	Dynamin-like 120 kDa protein
UniProt Gene Name	OPA1
UniProt Synonym Gene Names	KIAA0567
NCBI Protein Information	dynamin-like 120 kDa protein, mitochondrial

UniProt Comments for OPA1	OPA1: a dynamin-related GTPase required for mitochondrial fusion and regulation of apoptosis. May form a diffusion barrier for proteins stored in mitochondrial cristae. Proteolytic processing in response to intrinsic apoptotic signals may lead to disassembly of OPA1 oligomers and release of the caspase activator cytochrome C (CYCS) into the mitochondrial intermembrane space. Defects in OPA1 are the cause of optic atrophy 1 and deafness. Eight splice-variant isoforms have been described. Protein type: Apoptosis; EC 3.6.5.5; Hydrolase; Membrane protein, integral; Mitochondrial Chromosomal Location of Human Ortholog: 3q29 Cellular Component: cytosol; dendrite; membrane; mitochondrial crista; mitochondrial inner membrane; mitochondrial intermembrane space; mitochondrial outer membrane; mitochondrion; nucleoplasm Molecular Function: GTPase activity; microtubule binding; protein binding Biological Process: axon transport of mitochondrion; inner mitochondrial membrane organization and biogenesis; mitochondrial fission; mitochondrial fusion; mitochondrial genome maintenance; mitochondrion organization and biogenesis; regulation of apoptosis; visual perception Disease: Behr Syndrome; Glaucoma, Normal Tension, Susceptibility To; Mitochondrial Dna Depletion Syndrome 14 (cardioencephalomyopathic Type); Optic Atrophy 1; Optic Atrophy With Or Without Deafness, Ophthalmoplegia, Myopathy, Ataxia, And Neuropathy
Research Articles on OPA1	**1.** The present study identified novel compound heterozygous OPA1 mutations in a patient with recessive optic atrophy, sensorimotor neuropathy and congenital cataracts, indicating an expansion of the clinical spectrum of pathologies associated with OPA1 mutations.
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