

Anti-OPA1 Antibody (aa901-950)
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18375**Specification**

Anti-OPA1 Antibody (aa901-950) - Product Information

Application	WB, IHC-P, E
Primary Accession	O60313
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	111631

Anti-OPA1 Antibody (aa901-950) - Additional Information**Gene ID** 4976

Alias Symbol	OPA1
Other Names	
OPA1, KIAA0567, MGM1, LargeG, NPG, NTG, Optic atrophy protein 1	

Target/Specificity

OPA1 antibody detects endogenous levels of OPA1.

Reconstitution & Storage

Immunoaffinity purified

Precautions

Anti-OPA1 Antibody (aa901-950) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-OPA1 Antibody (aa901-950) - Protein Information**Name** OPA1**Function**

Dynamin-related GTPase that is essential for normal mitochondrial morphology by regulating the equilibrium between mitochondrial fusion and mitochondrial fission (PubMed:16778770, PubMed:17709429, PubMed:20185555, PubMed:24616225, PubMed:28746876).

Coexpression of isoform 1 with shorter alternative products is required for optimal activity in promoting mitochondrial fusion (PubMed:17709429). Binds lipid membranes enriched in negatively charged phospholipids, such as cardiolipin, and promotes membrane tubulation (PubMed:<a

[20185555](http://www.uniprot.org/citations/20185555)). The intrinsic GTPase activity is low, and is strongly increased by interaction with lipid membranes (PubMed:[20185555](http://www.uniprot.org/citations/20185555)). Plays a role in remodeling cristae and the release of cytochrome c during apoptosis (By similarity). 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 (By similarity). Plays a role in mitochondrial genome maintenance (PubMed:[20974897](http://www.uniprot.org/citations/20974897), PubMed:[18158317](http://www.uniprot.org/citations/18158317)).

Cellular Location

Mitochondrion inner membrane; Single-pass membrane protein. Mitochondrion intermembrane space {ECO:0000250|UniProtKB:P58281}. Mitochondrion membrane. Note=Detected at contact sites between endoplasmic reticulum and mitochondrion membranes

Tissue Location

Highly expressed in retina. Also expressed in brain, testis, heart and skeletal muscle. Isoform 1 expressed in retina, skeletal muscle, heart, lung, ovary, colon, thyroid gland, leukocytes and fetal brain. Isoform 2 expressed in colon, liver, kidney, thyroid gland and leukocytes. Low levels of all isoforms expressed in a variety of tissues.

Anti-OPA1 Antibody (aa901-950) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-OPA1 Antibody (aa901-950) - Images