

Anti-OPA1 antibody



Description	Unconjugated Rabbit polyclonal to OPA1
Model	STJ193080
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Gene ID	4976
Gene Symbol	OPA1
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	OPA1 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	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.
Purification	OPA1 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Dynamin-like 120 kDa protein, mitochondrial Optic atrophy protein 1 Dynamin-like 120 kDa protein, form S1
Molecular Weight	105 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:81400MIM:125250
Alternative Names	Dynamin-like 120 kDa protein, mitochondrial Optic atrophy protein 1 Dynamin-like 120 kDa protein, form S1
Function	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. May also play a role in mitochondrial genome maintenance. Dynamin-like 120 kDa protein, form S1: Inactive form produced by cleavage at S1 position by OMA1 following stress conditions that induce loss of mitochondrial membrane potential, leading to negative regulation of mitochondrial fusion.
Cellular Localization	Mitochondrion inner membrane Mitochondrion intermembrane space
Post-translational Modifications	PARL-dependent proteolytic processing releases an antiapoptotic soluble form not required for mitochondrial fusion. Cleaved by OMA1 at position S1 following stress conditions.

St John's Laboratory Ltd

F +44 (0)207 681 2580

T +44 (0)208 223 3081

W <http://www.stjohnslabs.com/>

E info@stjohnslabs.com