

Product datasheet

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ARG58978 anti-OPA1 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes OPA1

Tested Reactivity Hu, Ms, Rat
Tested Application ICC/IF, WB
Host Rabbit
Clonality Polyclonal
Isotype IgG

Target Name OPA1

Species Human

Immunogen Recombinant fusion protein corresponding to aa. 661-960 of Human OPA1 (NP_056375.2).

Conjugation Un-conjugated

Alternate Names Dynamin-like 120 kDa protein, mitochondrial; NPG; Optic atrophy protein 1; EC 3.6.5.5; MGM1; NTG;

largeG

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	SKOV3	
Observed Size	112 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol OPA1

Gene Full Name optic atrophy 1 (autosomal dominant)

Background 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, Mar 2009]

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. [UniProt]

Calculated Mw 112 kDa

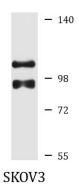
PTM PARL-dependent proteolytic processing releases an antiapoptotic soluble form not required for

mitochondrial fusion. Cleaved by OMA1 at position S1 following stress conditions. [UniProt]

Cellular Localization Mitochondrion inner membrane, Mitochondrion intermembrane space, Single-pass membrane protein.

[UniProt]

Images



ARG58978 anti-OPA1 antibody WB image

Western blot: 25 μg of SKOV3 cell lysate stained with ARG58978 anti-OPA1 antibody at 1:1000 dilution.