

OPA1 Polyclonal Antibody | anti-OPA1 antibody

Anti-OPA1 Antibody

CATALOG # AAA46411	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
------------------------------	--	---

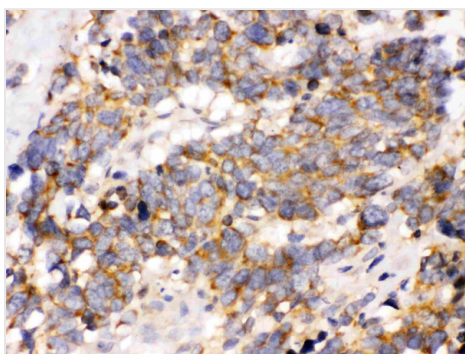
PRODUCT SYNONYMS

OPA1; Polyclonal Antibody; Anti-OPA1 Antibody; Dynamin-like 120 kDa protein; Dynamin like 120 kDa protein; mitochondrial; form S1; FLJ12460; Juvenile kjer type optic atrophy; KIAA0567; KJER type; Large GTP binding protein; largeG; MGM1; Mitochondrial dynamin like 120 kDa protein; Mitochondrial dynamin like GTPase; NPG; NTG; OAK; OPA 1; opa1; OPA1 gene; OPA1_HUMAN; Optic atrophy 1 (autosomal dominant); OPTIC ATROPHY 1; Optic atrophy 1 gene protein; Optic atrophy 1 homolog (human); Optic atrophy protein 1; Optic atrophy protein 1 homolog; ; optic atrophy 1 (autosomal dominant); anti-OPA1 antibody

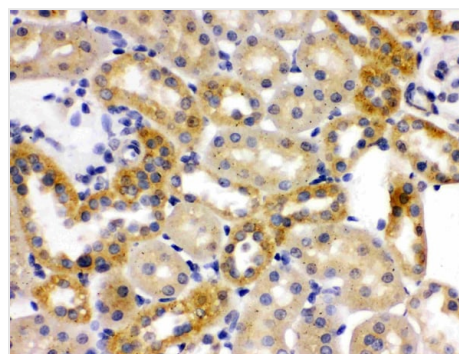
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	960
Applicable Applications for anti-OPA1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human OPA1 (919-955aa EDGEKKIKLLTGKRVQLAEDLKKVREIQEKLDAFIEA), different from the related mouse and rat sequences by one amino acid.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

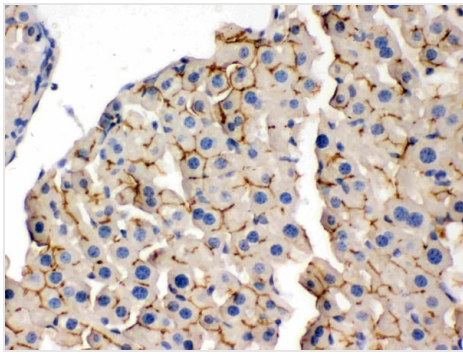
IMAGES



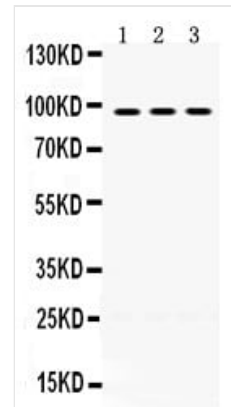
IHC (Immunohistochemistry)
Anti- OPA1 Picoband antibody, AAA46411, IHC(P)IHC(P): Human Lung Cancer Tissue



IHC (Immunohistochemistry)
Anti- OPA1 Picoband antibody, AAA46411, IHC(P)IHC(P): Rat Kidney Tissue



IHC (Immunohistochemistry)
Anti- OPA1 Picoband antibody, AAA46411, IHC(P)IHC(P): Mouse Liver Tissue



WB (Western Blot)
Anti- OPA1 Picoband antibody, AAA46411, Western blottingAll lanes: Anti OPA1 (AAA46411) at 0.5ug/mlLane 1: A549 Whole Cell Lysate at 40ugLane 2: SKOV Whole Cell Lysate at 40ugLane 3: SW620 Whole Cell Lysate at 40ugPredicted bind size: 110KDObserved bind size: 95KD

ADDITIONAL INFORMATION

Related Product Information for anti-OPA1 antibody	Description: Rabbit IgG polyclonal antibody for Dynamin-like 120 kDa protein, mitochondrial(OPA1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: Dynamin-like 120 kDa protein, mitochondrial is a protein that in humans is encoded by the OPA1 gene. It is mapped to 3q29. This protein regulates mitochondrial fusion and cristae structure in the inner mitochondrial membrane (IMM) and contributes to ATP synthesis and apoptosis. 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.
References	1. Patten DA, Wong J, Khacho M, Soubannier V, Mailloux RJ, Pilon-Larose K, MacLaurin JG, Park DS, McBride HM, Trinkle-Mulcahy L, Harper ME, Germain M, Slack RS (Nov 2014). "OPA1-dependent cristae modulation is essential for cellular adaptation to metabolic demand". The EMBO Journal 33 (22): 2676-91. 2. Santarelli R, Rossi R, Scimemi P, Cama E, Valentino ML, La Morgia C, Caporali L, Liguori R, Magnavita V, Monteleone A, Biscaro A, Arslan E, Carelli V (Mar 2015). "OPA1-related auditory neuropathy: site of lesion and outcome of cochlear implantation". Brain 138 (Pt 3): 563-76.

NCBI AND UNIPROT INFORMATION

NCBI GI #	224831243
NCBI GeneID	4976
NCBI Accession #	NP_056375.2
NCBI GenBank Nucleotide #	NM_015560.2
UniProt Accession #	O60313; D3DNW4
Molecular Weight	115,884 Da
NCBI Official Full Name	dynamin-like 120 kDa protein, mitochondrial isoform 1
NCBI Official Synonym Full Names	OPA1, mitochondrial dynamin like GTPase
NCBI Official Symbol	OPA1
NCBI Official Synonym Symbols	NPG; NTG; MGM1; BERHS; largeG; MTDPS14
NCBI Protein Information	dynamin-like 120 kDa protein, mitochondrial
UniProt Protein Name	Dynamin-like 120 kDa protein, mitochondrial

UniProt Gene Name	OPA1
UniProt Synonym Gene Names	KIAA0567
UniProt Entry Name	OPA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/opa1-antibody-immunohistochemistry-western-blot-elisa/46411>