

## ARG44144 anti-MGME1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal recognizes MGME1
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MGME1
Species	Human
Immunogen	Human MGME1 recombinant protein (Position: K4-D310).
Conjugation	Un-conjugated
Alternate Names	MGME1; Mitochondrial Genome Maintenance Exonuclease 1; DDK1; BA504H3.4; C20orf72; Chromosome 20 Open Reading Frame 72; EC 3.1.-.-; MTDP511

### Application Instructions

Application table	Application	Dilution
	ICC/IF	5 µg/ml
	IHC-P	2 - 5 µg/ml
	WB	0.25 - 0.5 µg/ml
Application Note	The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

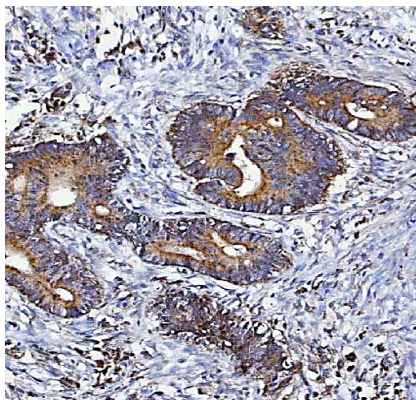
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
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 or below. 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.

## Bioinformation

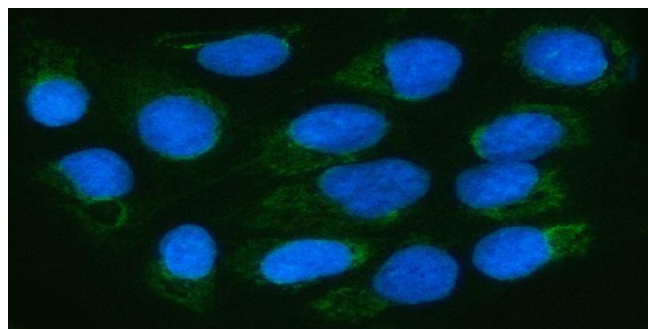
Gene Symbol	MGME1
Gene Full Name	Mitochondrial Genome Maintenance Exonuclease 1
Background	The protein encoded by this gene is a nuclear-encoded mitochondrial protein necessary for the maintenance of mitochondrial genome synthesis. The encoded protein is a RecB-type exonuclease and primarily cleaves single-stranded DNA. Defects in this gene have been associated with mitochondrial DNA depletion syndrome-11. Three transcript variants encoding different isoforms have been found for this gene.
Function	Metal-dependent single-stranded DNA (ssDNA) exonuclease involved in mitochondrial genome maintenance. Has preference for 5'-3' exonuclease activity but is also capable of endonuclease activity on linear substrates. Necessary for maintenance of proper 7S DNA levels. Probably involved in mitochondrial DNA (mtDNA) repair, possibly via the processing of displaced DNA containing Okazaki fragments during RNA-primed DNA synthesis on the lagging strand or via processing of DNA flaps during long-patch base excision repair. Specifically binds 5-hydroxymethylcytosine (5hmC)-containing DNA in stem cells.
Research Area	Disease variant, Primary mitochondrial disease, Progressive external ophthalmoplegia
Calculated Mw	39 kDa
PTM	Phosphoprotein
Cellular Localization	Mitochondrion

## Images



ARG44144 anti-MGME1 antibody IHC-P image

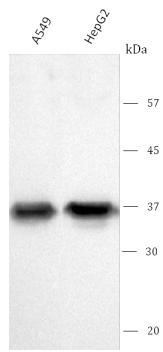
Immunohistochemistry: Human colorectal adenocarcinoma stained with ARG44144 anti-MGME1 antibody at 2 µg/ml dilution.



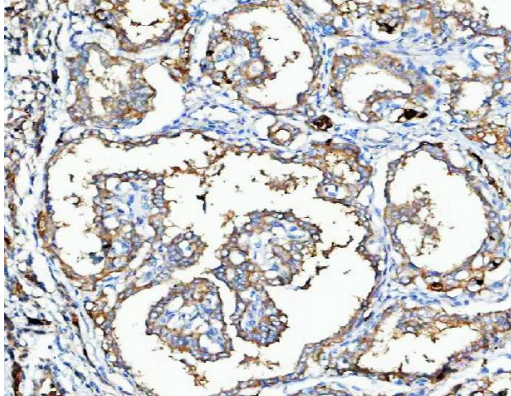
ARG44144 anti-MGME1 antibody ICC/IF image

Immunofluorescence: U2OS stained with ARG44144 anti-MGME1 antibody at 5 µg/ml dilution.

#### ARG44144 anti-MGME1 antibody WB image



Western blot: A549 and HepG2 stained with ARG44144 anti-MGME1 antibody at 0.5  $\mu$ g/ml dilution.



#### ARG44144 anti-MGME1 antibody IHC-P image

Immunohistochemistry: Human thyroid cancer stained with ARG44144 anti-MGME1 antibody at 2  $\mu$ g/ml dilution.