

For Research Use Only

# MGME1 Polyclonal antibody

Catalog Number: 23178-1-AP

Featured Product

3 Publications



## Basic Information

<b>Catalog Number:</b> 23178-1-AP	<b>GenBank Accession Number:</b> BC016869	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 750 µg/ml by Nanodrop and 460 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 92667	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> chromosome 20 open reading frame 72	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 344 aa, 39 kDa	
<b>Immunogen Catalog Number:</b> AG19644	<b>Observed MW:</b> 36-39 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

IF, IP, WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : Jurkat cells, A549 cells, HEK-293 cells, HepG2 cells, mouse liver tissue, Y79 cells

IHC : human kidney tissue, human liver cancer tissue

## Background Information

MGME1, also named as C20orf72, is a single-stranded DNA (ssDNA) exonuclease involved in mitochondrial genome maintenance. It has preference for 5'-3' exonuclease activity. MGME1 cleaves single-stranded DNA (ssDNA) and several DNA or DNA-RNA chimeric oligonucleotides that showed free nucleic acid ends. It 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. This antibody detects the 35-40 kDa protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jianli Tang	36106732	mBio	IF,IP
Hongxu Xian	35835107	Immunity	WB
Yi Fu	37832546	Mol Cell	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

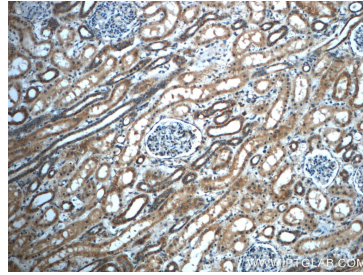
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

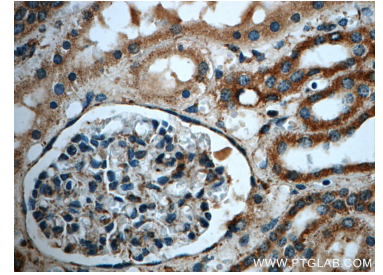
## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 23178-1-AP (MGME1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney slide using 23178-1-AP (MGME1 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney slide using 23178-1-AP (MGME1 Antibody) at dilution of 1:50 (under 40x lens).