

# ATG7 Rabbit mAb

Catalog No.: A21895

Recombinant

1 Publications

## Basic Information

**Observed MW**

78kDa

**Calculated MW**

78kDa

**Category**

Primary antibody

**Applications**

WB,IHC-P,IP,ELISA

**Cross-Reactivity**

Human

**CloneNo number**

ARC2631

## Background

This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants.

## Recommended Dilutions

**WB** 1:500 - 1:1000**IHC-P** 1:50 - 1:200**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Immunogen Information

**Gene ID**

10533

**Swiss Prot**

O95352

**Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**

GSA7; APG7L; SCAR31; APG7-LIKE; ATG7

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

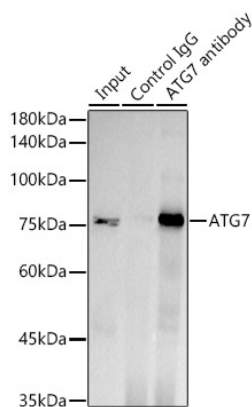
Affinity purification

**Storage**

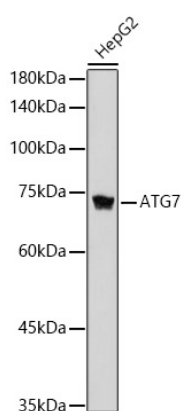
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

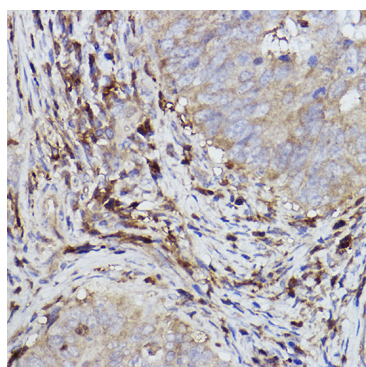
## Validation Data



Immunoprecipitation analysis of 300 µg extracts of HepG2 cells using 3 µg ATG7 antibody (A21895). Western blot was performed from the immunoprecipitate using ATG7 antibody (A21895) at a dilution of 1:500.



Western blot analysis of lysates from HepG2 cells, using ATG7 Rabbit mAb (A21895) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using ATG7 Rabbit mAb (A21895) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.