

Datasheet: AHP1651

**BATCH NUMBER 162117**

<b>Description:</b>	RABBIT ANTI HUMAN ATG7 (C-TERMINAL)
<b>Specificity:</b>	ATG7 (C-Terminal)
<b>Other names:</b>	UBIQUITIN-ACTIVATING ENZYME E1-LIKE PROTEIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			10ug/ml
Western Blotting	▪			1 - 2ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Antiserum Preparation

Antiserum to human ATG7 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

### Buffer Solution

Phosphate buffered saline

### Preservative

0.02% Sodium Azide (NaN<sub>3</sub>)

**Stabilisers**

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**Approx. Protein Concentrations** IgG concentration 1.0mg/ml

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**Immunogen** A peptide corresponding to an 17 amino acid sequence from near the carboxy terminus of human ATG7.

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**External Database Links**

**UniProt:**

[O95352](#) [Related reagents](#)

[Q9D906](#) [Related reagents](#)

**Entrez Gene:**

[10533](#) ATG7 [Related reagents](#)

[74244](#) Atg7 [Related reagents](#)

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**Synonyms** Apg7l, APG7L

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**RRID** AB\_1898218

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**Specificity** **Rabbit anti Human ATG7 (C-Terminal) antibody** recognizes human Autophagy-related protein 7, known also as Ubiquitin Activating Enzyme-E1 like Protein, ATG7, and APG7. ATG7 is a ~78 kDa cytoplasmic protein.

In mammalian cells, ATG7 is essential for autophagy conjugation systems, autophagosome formation, and starvation-induced bulk degradation of proteins and organelles. Caspase-8 may alter ATG7 levels and thus the ATG7 program of autophagic cell death ([Yu et al. 2004](#)).

ATG7 is evolutionarily conserved exhibiting high homology within mammalian species. It expressed in wide range of tissues including kidney, liver, bone marrow and lymph nodes.

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**Western Blotting** AHP1651 detects a band of approximately 78kDa in Caco-2 cell lysate.

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**References**

1. Pampliega, O. *et al.* (2013) Functional interaction between autophagy and ciliogenesis. [Nature. 502 \(7470\): 194-200.](#)
2. Koerver, L. *et al.* (2019) The ubiquitin-conjugating enzyme UBE2QL1 coordinates lysophagy in response to endolysosomal damage. [EMBO Rep. 20 \(10\): e48014.](#)

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP1651>  
10040

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M382695:210513'

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