

Datasheet: AHP1651T

BATCH NUMBER 163250

Description:	RABBIT ANTI HUMAN ATG7 (C-TERMINAL)
Specificity:	ATG7 (C-Terminal)
Other names:	UBIQUITIN-ACTIVATING ENZYME E1-LIKE PROTEIN
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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.

	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

<0.1% Sodium Azide (NaN₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0mg/ml

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

External Database Links

UniProt:

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

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

Entrez Gene:

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

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

Synonyms Apg7l, APG7L

RRID AB_2290188

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.

Western Blotting AHP1651T detects a band of approximately 78kDa in Caco-2 cell lysate.

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.](#)

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.

Guarantee 12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP1651T>
10040

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

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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)
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