Datasheet: VPA00230K

**Description:** ATG7 ANTIBODY WITH CONTROL LYSATE

**Specificity:** ATG7

**Format:** Purified

**Product Type:** PrecisionAb™ Polyclonal

**Isotype:** Polyclonal IgG

**Quantity:** 10 Westerns

**Product Details**

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).

<table>
<thead>
<tr>
<th>Suggested Dilution</th>
<th>Western Blotting</th>
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<tbody>
<tr>
<td>Yes</td>
<td>1/1000</td>
</tr>
<tr>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Not Determined</td>
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**Suggested Dilution**

PrecisionAb antibodies have been extensively validated for the western blot application. The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

**Target Species**

Human

**Product Form**

Purified IgG - liquid

**Preparation**

100μl Rabbit polyclonal antibody purified by affinity chromatography

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide (NaN₃)

**Immunogen**

KLH conjugated synthetic peptide between 540-569 amino acids from the C-terminal region of human ATG7

**External Database Links**

UniProt: [O95352](http://www.uniprot.org/uniprot/O95352) Related reagents

**Entrez Gene:**


**Synonyms**

APG7L

**Specificity**

Rabbit anti Human ATG7 antibody recognizes ubiquitin-like modifier-activating enzyme ATG7,
also known as ATG12-activating enzyme E1 ATG7, ATG7 autophagy related 7 homolog, autophagy-related protein 7, hAGP7 and ubiquitin activating enzyme E1-like protein.

ATG7 was identified based on homology to Pichia pastoris GSA7 and Saccharomyces cerevisiae APG7. In the yeast, the protein appears to be required for fusion of peroxisomal and vacuolar membranes. The protein shows homology to the ATP-binding and catalytic sites of the E1 ubiquitin activating enzymes (provided by RefSeq, Jan 2009).

Rabbit anti Human ATG7 antibody detects a band of 78 kDa. The antibody has been extensively validated for western blotting using whole cell lysates. This antibody is available with a positive control lysate, in a smaller trial size, and as a standalone antibody.

### Western Blotting

Anti ATG7 detects a band of approximately 78 kDa in HeLa cell lysates

### Instructions For Use

Please refer to the PrecisionAb western blotting protocol. For additional information on secondary antibody dilution and exposure time see product web page.

### Lysate Composition

400μg HeLa lysate lyophilized in RIPA buffer.

### Lysate Reconstitution

- If using DDT reconstitute the lyophilized lysate with 190μl DI H2O, add 200μl 2x Laemmli Sample Buffer and 10μl 2M DTT.
- If using BME reconstitute the lyophilized lysate with 180μl DI H2O, add 200μl 2x Laemmli Sample Buffer and 20μl BME.

Heat at 95°C for 5 minutes. For 10 well mini gels load 25μl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

### Storage

- Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
- Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

### Shelf Life

As supplied, 12 months from date of despatch.

### Acknowledgements

PrecisionAb™ is a trademark of Bio-Rad Laboratories.

### Health And Safety Information


### Regulatory

For research purposes only

### Related Products

**Recommended Secondary Antibodies**

Goat Anti Rabbit IgG (H/L) (STAR208...) **HRP**