

Anti-ATG8 antibody ab4753

★★★★☆ [4 Abreviews](#) [10 References](#) [2 Images](#)

Overview

Product name	Anti-ATG8 antibody
Description	Rabbit polyclonal to ATG8
Host species	Rabbit
Tested applications	Suitable for: WB, ELISA
Species reactivity	Reacts with: <i>Saccharomyces cerevisiae</i>
Immunogen	Recombinant full length protein (<i>S. cerevisiae</i>).
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 6.50</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride</p>
Purity	IgG fraction
Purification notes	Purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab4753 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (4)	1/4000 - 1/8000. Detects a band of approximately 14 kDa. This antibody using the specified conditions may recognize other prominent intrinsic bands (UBLs or their conjugates). Other intrinsic bands are readily detectable in yeast lysates at lower antibody dilutions.
ELISA		1/20000 - 1/100000.

Target

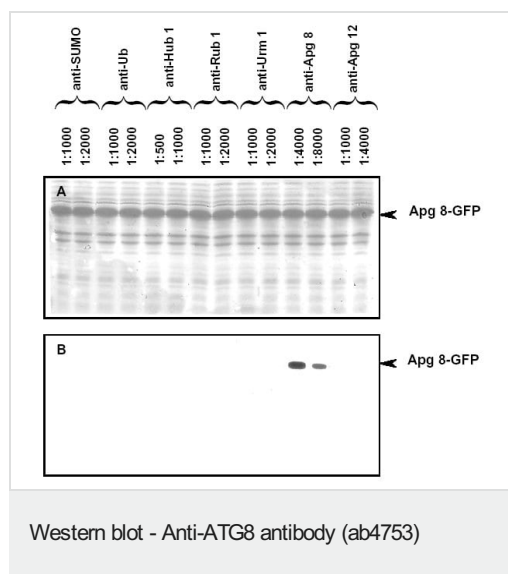
Relevance

ATG8 is a ubiquitin-like protein in yeast required for autophagy (intracellular bulk protein degradation). Starved yeast cells take up their own cytoplasm into vacuoles through autophagic bodies. ATG8 is required for autophagy: modified by the serial action of ATG4, ATG7, and ATG3, and conjugated at the C terminus with phosphatidylethanolamine, to become the form essential for generation of autophagosomes. ATG8 interacts also with the endoplasmic reticulum to Golgi v-SNARE protein BET1 and the vacuolar v-SNARE protein NYV1. ATG8 is highly conserved, with apparent homologues in the worm, mammals and plants. In higher eukaryotes, ATG8 consists of a multigene family.

Cellular localization

Cytoplasmic

Images



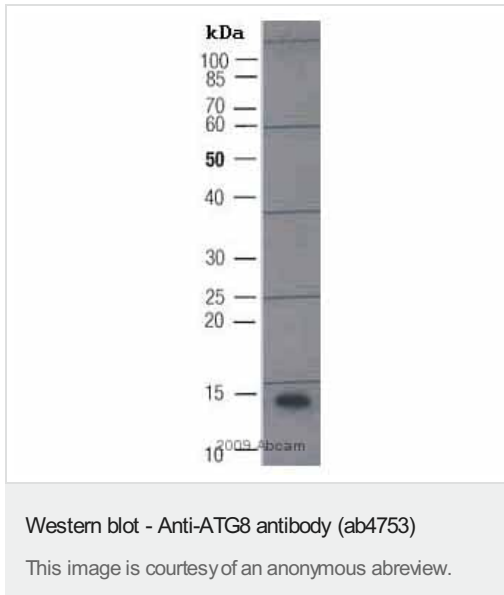
Ab4753, generated by immunization with recombinant yeast ATG8 (or Apg 8), was tested by immunoblot with other anti-UBL (Ubiquitin-like modifier) antibodies against E.coli lysates expressing the ATG8-GFP fusion protein (Apg 8-GFP in both panels)). All UBLs possess limited homology to Ubiquitin and to each other, therefore it is important to know the degree of reactivity of each antibody against each UBL.

Panel A shows total protein staining using ponceau.

Panel B shows specific reaction with ATG8 (Apg 8) using a 1:4,000 and 1:8,000 dilution of ab4753 followed by reaction with a 1:15,000 dilution of HRP Goat-a-Rabbit IgG (**ab7090**). All primary antibodies were diluted in TTBS buffer supplemented with 5% non-fat milk and incubated with the membranes overnight at 4° C. E.coli lysate proteins were separated by SDS-PAGE using a 15% gel.

Similar experiments (data not shown), where other UBL fusion proteins were separated and probed with this antibody showed no

react



Anti-ATG8 antibody (ab4753) at 1/1500 dilution + Whole cell lysate prepared from Human huh-7 cells expressing the Saccharomyces cerevisiae protein at 15 µg

Secondary

Sheep anti-rabbit IgG conjugated to HRP at 1/7000 dilution

Observed band size: 15 kDa

Exposure time: 4 minutes

Gel run under denaturing conditions.

Primary antibody incubated for 10 minutes at 20°C.

Blocked using 0.5% milk for 1 minute at 20°C.

Detection method: Western lightning chemiluminescent reagent.

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