Datasheet: AAM79

Description:	RABBIT ANTI ATG5-ATG12 COMPLEX (C-TERMINAL)
Specificity:	ATG5-ATG12 COMPLEX (C-TERMINAL)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1.0 - 2.0ug/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

Mouse

Species Cross Reactivity

Reacts with: Human

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 mouse Atg5 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.

Buffer Solution

Phosphate buffered saline.

Preservative Stabilisers	<0.1% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	KLH conjugated synthetic peptide corresponding to amino acids 262-275 of mouse Atg5. The corresponding sequence differs by one amino acid in human.
External Database Links	**UniProt:** Q99J83 Related reagents Q9H1Y0 Related reagents Q9CQY1 Related reagents O94817 Related reagents **Entrez Gene:** 11793 Atg5 Related reagents 9474 ATG5 Related reagents 9140 ATG12 Related reagents 67526 Atg12 Related reagents
Synonyms	Apg12, APG12, Apg12l, APG12L, Apg5l, APG5L, ASP
RRID	AB_10843431
Specificity	**Rabbit anti ATG5-ATG12 Complex antibody** recognizes an epitope within the C-Terminal (CT) region of the Atg5-Atg12 complex, which plays a key role in the regulation of autophagy, and is emerging as an important factor in the innate immune response to viruses (Hwang *et al.* 2012). The Atg5-Atg12 complex interacts with retinoic acid–inducible gene 1 and the adaptor molecule IFN-beta promoter stimulator 1, through caspase recruitment domains, thereby acting as a negative regulator of the type I IFN production pathway, and as a contributor to RNA viral replication within the host cells (Takeshita *et al* 2008).
Western Blotting	AAM79 detects a band of approximately 56kDa in mouse liver and human U87 cell lysates.
References	1. Lang, F. *et al.* (2015) Apoptotic Cell Death Induced by Resveratrol Is Partially Mediated by the Autophagy Pathway in Human Ovarian Cancer Cells. PLoS One. 10 (6): e0129196. 2. Yu, L. *et al.* (2022) BMAL1 plays a critical role in the protection against cardiac hypertrophy through autophagy *in vitro*.. BMC Cardiovasc Disord. 22 (1): 381.
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/AAM79 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP

Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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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

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