antibodies.com

# Datasheet for ABIN3030039 anti-ATG7 antibody (AA 22-51)

6 Images



### Overview

Quantity:	0.4 mL
Target:	ATG7
Binding Specificity:	AA 22-51
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

### Product Details

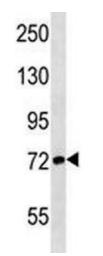
Immunogen:	A portion of amino acids 22-51 from the human protein was used as the immunogen for this ATG7 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Rat
Purification:	Antigen affinity purified

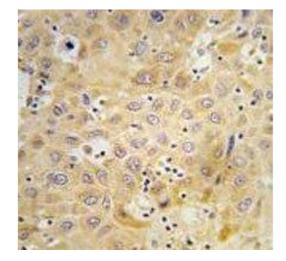
## Target Details

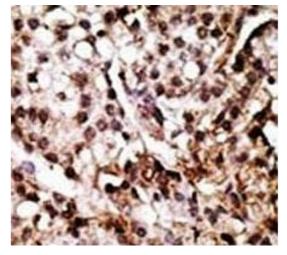
Target:	ATG7
Alternative Name:	ATG7 (ATG7 Products)
Background:	ATG7 is an E1-like activating enzyme involved in the 2 ubiquitin-like systems required for

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN3030039 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	cytoplasm to vacuole transport (Cvt) and autophagy. Activates ATG12 for its conjugation with ATG5 as well as the ATG8 family proteins for their conjugation with phosphatidylethanolamine. Both systems are needed for the ATG8 association to Cvt vesicles and autophagosomes membranes. Required for autophagic death induced by caspase-8 inhibition. Required for mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the
	mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Modulates p53/TP53 activity to regulate cell cycle and survival during metabolic
	stress. Plays also a key role in the maintenance of axonal homeostasis, the prevention of
	axonal degeneration, the maintenance of hematopoietic stem cells, the formation of Paneth cell
	granules, as well as in adipose differentiation. [UniProt]
UniProt:	095352
Pathways:	Response to Water Deprivation, Autophagy
Application Details	
Application Notes:	Titration of the ATG7 antibody may be required due to differences in protocols and
	secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the ATG7 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw
	cycles.







### Western Blotting

**Image 1.** ATG7 antibody western blot analysis in Jurkat lysate. Predicted molecular weight: 70-80 kDa.

#### Immunohistochemistry

**Image 2.** IHC analysis of FFPE human hepatocarcinoma tissue stained with ATG7 antibody

#### Immunohistochemistry

**Image 3.** IHC analysis of FFPE human breast carcinoma tissue stained with the ATG7 antibody

Please check the product details page for more images. Overall 6 images are available for ABIN3030039.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN3030039 | 09/11/2023 | Copyright antibodies-online. All rights reserved.