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# Datasheet for ABIN3043721 anti-ATG14 antibody (N-Term)

3 Images



#### Overview

Quantity:	100 µg
Target:	ATG14
Binding Specificity:	AA 70-101, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Beclin 1-associated autophagy-related key regulator (ATG14)
	detection. Tested with WB, IHC-P in Human,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human ATG14L (70-
	101aa RDRERFIDKKERLSRLKSKQEEFQKEVLKAME), different from the related mouse and rat
	sequences by two amino acids.
Sequence:	RDRERFIDKK ERLSRLKSKQ EEFQKEVLKA ME
lsotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Beclin 1-associated autophagy-related key regulator (ATG14)
	detection. Tested with WB, IHC-P in Human,Rat.
	Gene Name: autophagy related 14
	Protein Name: Beclin 1-associated autophagy-related key regulator

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# Product Details

Purification:

Immunogen affinity purified.

# Target Details

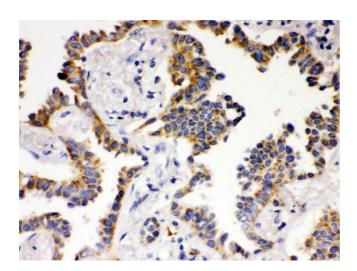
Target:	ATG14
Alternative Name:	ATG14 (ATG14 Products)
Background:	ATG14 (also known as beclin-1-associated autophagy-related key regulator (Barkor) or
	ATG14L), an essential autophagy-specific regulator of the class III phosphatidylinositol 3-kinase
	complex, promotes membrane tethering of protein-free liposomes, and enhances hemifusion
	and full fusion of proteoliposomes reconstituted with the target (t)-SNAREs (soluble N-
	ethylmaleimide-sensitive factor attachment protein receptors) syntaxin 17 (STX17) and
	SNAP29, and the vesicle (v)-SNARE VAMP8 (vesicle-associated membrane protein 8). ATG14
	binds to the SNARE core domain of STX17 through its coiled-coil domain, and stabilizes the
	STX17-SNAP29 binary t-SNARE complex on autophagosomes.
	Synonyms: 4832427M01 antibody ATG14 antibody Atg14L antibody Autophagy-related protein
	14-like protein antibody BAKOR_HUMAN antibody Barkor antibody Beclin 1-associated
	autophagy-related key regulator antibody D14Ertd114e antibody D14Ertd436e
	antibody KIAA0831 antibody mCG_6911 antibody
Gene ID:	22863
Pathways:	Autophagy
Application Details	
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat
	IHC-P: Concentration: 0.5-1 $\mu$ g/mL, Tested Species: Human, Rat, Epitope Retrieval by Heat:
	Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the
	staining of formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by
	ABIN921231 in IHC(P).
Restrictions:	For Research Use only

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# Handling

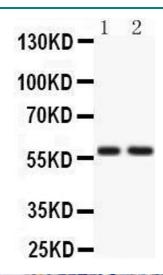
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu\text{g/mL}.$
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Images



### Immunohistochemistry

**Image 1.** Anti- ATG14L Picoband antibody, IHC(P) IHC(P): Human Lung Cancer Tissue

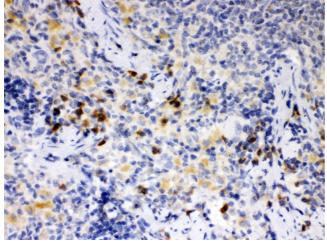


#### Western Blotting

**Image 2.** Anti- ATG14L Picoband antibody, Western blotting All lanes: Anti ATG14L at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: HELA Whole Cell Lysate at 40ug Predicted bind size: 59KD Observed bind size: 59KD

### Immunohistochemistry

**Image 3.** Anti- ATG14L Picoband antibody, IHC(P) IHC(P): Rat Spleen Tissue



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