

## Anti-ATG14 Rabbit pAb



WL02420

For Research Use Only. Not For Use In Diagnostic Procedures

## Product Information

<b>Product name</b>	Anti-ATG14 Rabbit pAb	
<b>Source</b>	Rabbit	
<b>Species reactivity</b>	Human, Mouse, Rat	
<b>Tested applications</b>	WB	1:500-1:1000
	IHC	1:100-1:200
	IF	1:50-1:200
<b>Cellular localization</b>	Cytoplasm, Endoplasmic reticulum, Membrane	
<b>Pack size</b>	50/100/200/500/1000µl	
<b>Storage</b>	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>	
<b>Storage buffer</b>	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml	
	BSA, 50% glycerol and less than 0.02% sodium azide	

## General Information

**Background**

Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents. The molecular machinery of autophagy was largely discovered in yeast and is directed by a number of autophagy-related (Atg) genes. The class III type phosphoinositide 3-kinase (PI3K) Vps34 regulates vacuolar trafficking and autophagy. Multiple proteins associate with Vps34, including p105/Vps15, Beclin-1, UVRAG, Atg14, and Rubicon. Atg14 and Rubicon were identified based on their ability to bind to Beclin-1 and participate in unique complexes with opposing functions. Atg14 localizes to autophagosomes, isolation membranes, and ER and can enhance Vps34 activity. Knockdown of Atg14 inhibits starvation-induced autophagy.

**Immunogen**

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of ATG14.

**Purification**

Polyclonal antibody was purified by immunogen affinity chromatography.

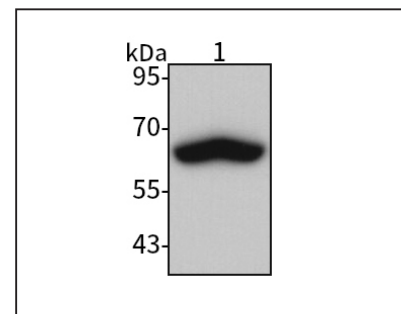
## Anti-ATG14 Rabbit pAb



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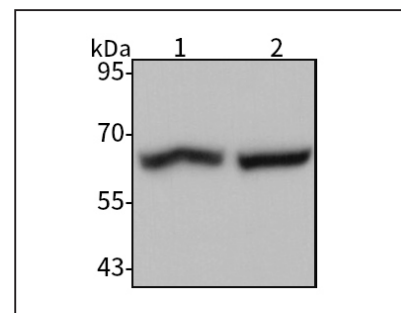
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## Product Images



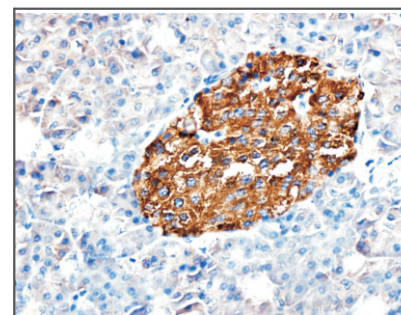
## Western blot-Anti-ATG14 pAb

Lane 1: Human HEK293 cell lysate  
 All lanes: Anti-ATG14 at 1:1000 dilution  
 Lysates/proteins at 20-50 µg per lane.  
 Predicted band size: 55 kDa  
 Observed band size: 55/65 kDa



## Western blot-Anti-ATG14 pAb

Lane 1: Mouse lung tissue lysate  
 Lane 2: Rat lung tissue lysate  
 All lanes: Anti-ATG14 at 1:1000 dilution  
 Lysates/proteins at 20-50 µg per lane.  
 Predicted band size: 55 kDa  
 Observed band size: 55/65 kDa



## Immunohistochemistry-Anti-ATG14 pAb

Sample: Human pancreas cancer tissue  
 Antigen retrieval: pH 9.0 Tris-EDTA buffer  
 Primary antibody: 1:100, 4°C, overnight  
 Secondary antibody-Biotin: 1:150, 37°C, 1h  
 Streptavidin-HRP: 1:200, 37°C, 30min  
 Color Developing: DAB

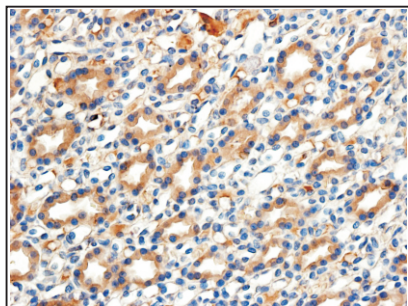
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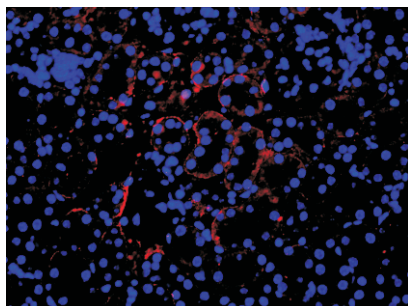
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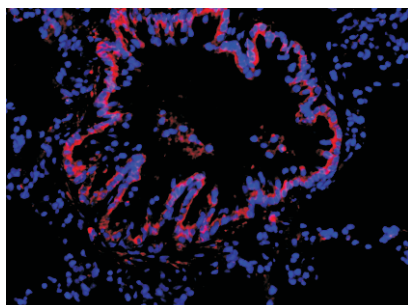
#### Immunohistochemistry-Anti-ATG14 pAb

**Sample:** Rat kidney (LPS treated) tissue  
**Antigen retrieval:** pH 9.0 Tris-EDTA buffer  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-Biotin:** 1:150, 37°C, 1h  
**Streptavidin-HRP:** 1:200, 37°C, 30min  
**Color Developing:** DAB



#### Immunofluorescence-Anti-ATG14 pAb

Immunofluorescence analysis of paraffin-embedded mouse kidney using anti-ATG14 Rabbit Antibody at 1:100 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunofluorescence-Anti-ATG14 pAb

Immunofluorescence analysis of paraffin-embedded rat lung using anti-ATG14 Rabbit Antibody at 1:100 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0