

Product Datasheet

Anti-ATG14 Rabbit pAb



For Research Use Only. Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-ATG14 Rabbit pAb	
Source	Rabbit	
Species reactivity	Human, Mouse, Rat	
Tested applications	WB	1:500-1:1000
	IHC	1:100-1:200
	IF	1:50-1:200
Cellular localization	Cytoplasm, Endoplasmic reticulum, Membrane	
Pack size	50/100/200/500/1000µl	
Storage	Store at -20°C. Avoid freeze/thaw cycles.	
Storage buffer	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 autophagosome-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.

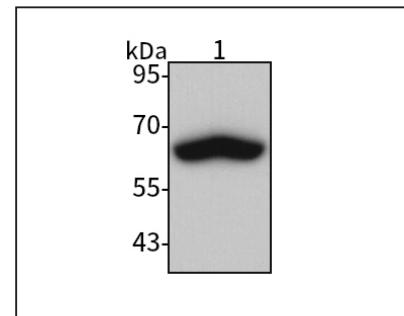
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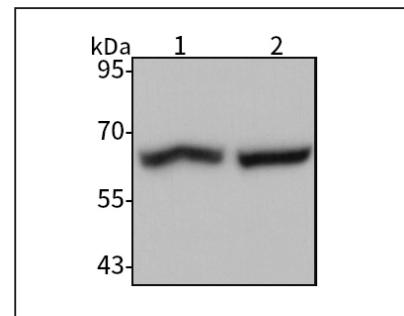
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Product Images



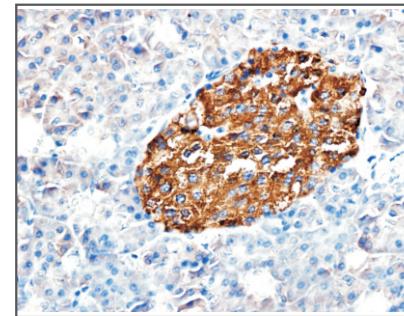
Western blot-Anti-ATG14 pAb

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

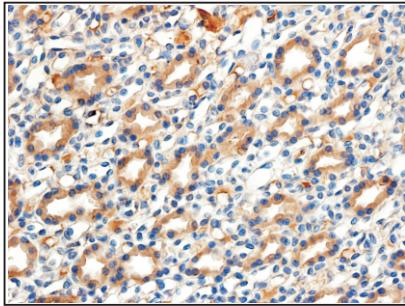
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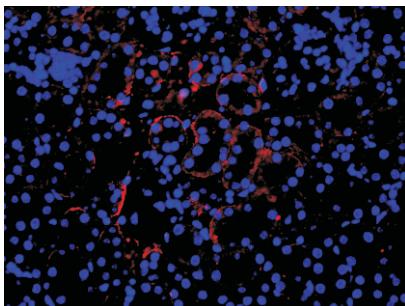
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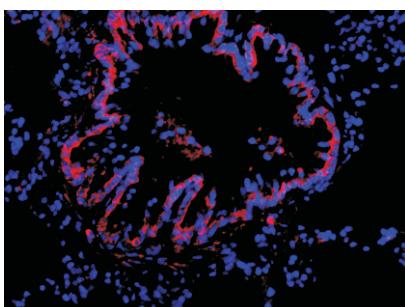
Immunohistochemistry-Anti-ATG14 pAb

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